

# BICYCLE ROUTE PILOT LOOP DESIGN PLANS

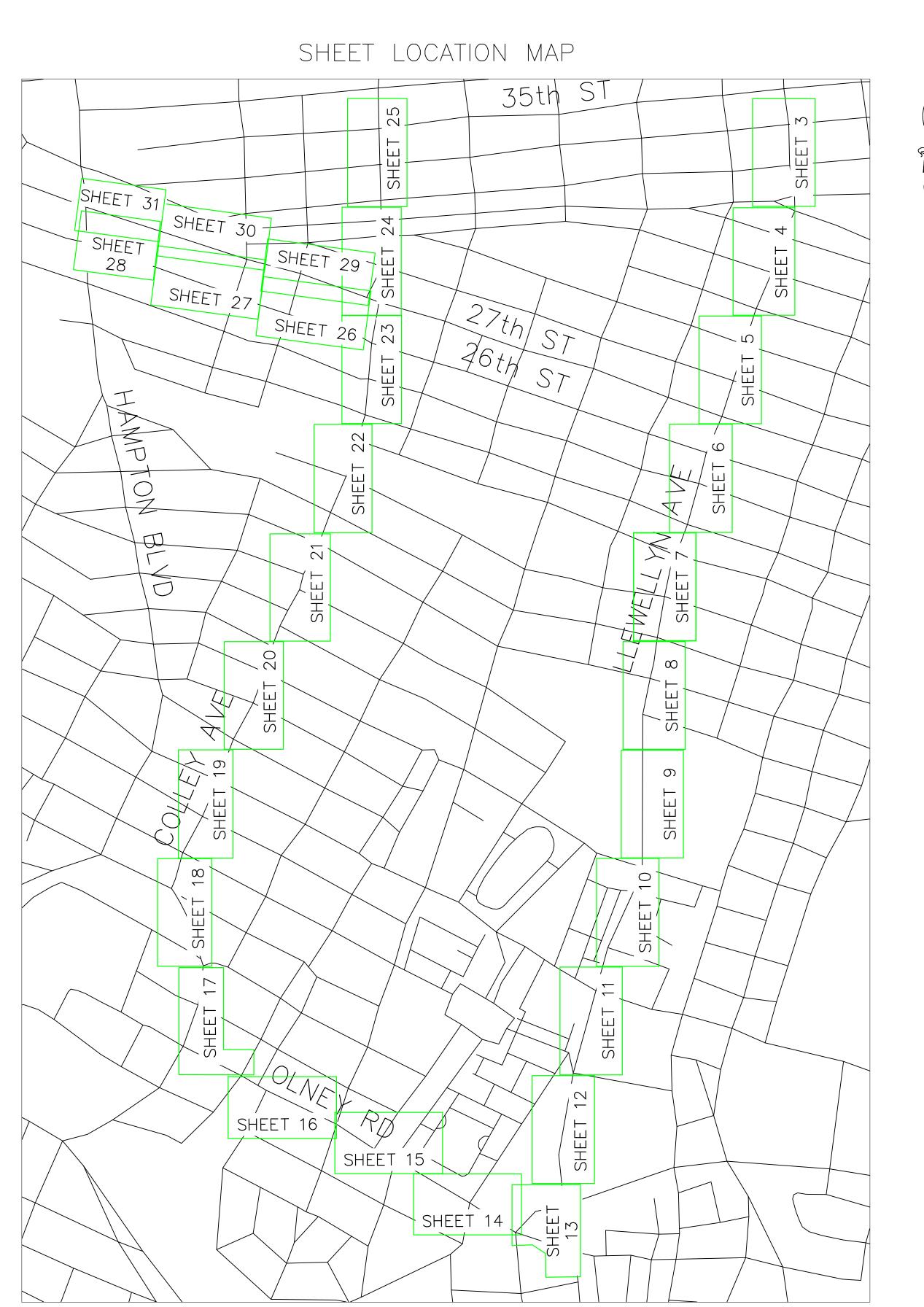
NORFOLK, VIRGINIA

INDEX OF SHEETS TITLE SHEET GENERAL NOTES 3-31 32-35 BIKE LOOP LAYOUT DETAILS

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH **VDOT'S 2007 ROAD AND BRIDGE SPECIFICATIONS, 2008 ROAD** AND BRIDGE STANDARDS, 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION MANUAL AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY.

THE CONTRACTOR SHALL CONTACT THE CITY OF NORFOLK, BUREAU OF ENVIRONMENTAL SERVICES AT 664-4368 AT LEAST 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY SO THAT A PRECONSTRUCTION CONFERENCE CAN BE SCHEDULED.

PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CALL "MISS UTILITY" **OF VIRGINIA DIAL - 811** FOR LOCATION OF UNDERGROUND UTILITIES



### PROJECT DESCRIPTION

PAVEMENT MARKING AND BICYCLE SIGNING PLANS. THE PAVEMENT MARKING PLANS INCLUDE THE INSTALLATION OF BIKE LANE AND SHARED LANE SYMBOLS AND ASSOCIATED BIKE LANE SIGNS. THE PROJECT INCLUDES THE ERADICATION OF EXITING PAVEMENT MARKINGS, SHIFTS IN STREET CENTERLINES, AND REALLOCATION OF CROSS-SECTION WIDTH BETWEEN TRAVEL LANES, SHARED TRAVEL LANES, BIKE LANES, AND ON-STREET PARKING LANES AS IDENTIFIED IN THE PLANS.

THE PURPOSE OF THIS PROJECT IS TO IMPLEMENT

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#### **GENERAL NOTES:**

 FOR WORK IN THE CITY OF NORFOLK'S RIGHT-OF-WAY, CONTACT THE FOLLOWING 48 HOURS IN ADVANCE, EXCEPT AS OTHERWISE NOTED:

-RIGHT-OF-WAY PERMITS: 664-7306 -LANDSCAPING: 441-2435 -CITY FORESTER: 823-4024 -DRAINAGE: 823-4000

-UTILITIES: 664-6701 (5 BUSINESS DAYS IN ADVANCE) -ENVIRONMENTAL SERVICES: 664-4368

- 2. EXCEPT FOR ASPHALT PAVEMENT, ALL ITEMS PERTAINING TO THESE PROJECTS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE 2008 EDITION OF VDOT 'ROAD AND BRIDGE STANDARDS', THE 2007 VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS, THE CITY OF NORFOLK TRAFFIC SIGNAL STANDARD SPECIFICATIONS, AND THE 2009 EDITION OF THE MUTCD.
- 3. ANY PAVEMENT, DRIVEWAYS, WALKS, CURBS, ETC. THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH MATCHING MATERIALS.
- 4. TRAFFIC CONTROL PLANS AND DETAILS ARE REQUIRED FOR ALL CONSTRUCTION IN THE RIGHT-OF-WAY. WORK IN THE CITY RIGHT-OF-WAY IS PERMITTED ONLY BETWEEN THE HOURS OF 9:00 AM AND 3:00 PM OR AS DETERMINED BY THE CITY TRANSPORTATION ENGINEER. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE DIVISION OF TRANSPORTATION IN ACCORDANCE WITH THE 2009 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE 2011 EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUAL. THIS PLAN SHALL ALLOW ALL CONSTRUCTION ACTIVITIES TO BE PERFORMED WHILE TWO-WAY TRAFFIC IS MAINTAINED THROUGH THE WORK ZONE. ACCESS TO LOCAL BUSINESSES AND RESIDENCES SHALL BE MAINTAINED AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE SIGNING, DELINEATION OF PAVEMENT MARKINGS AND ANY OTHER TRAFFIC CONTROL DEVICES NECESSARY TO PERFORM THE WORK. UPON COMPLETION OF THE WORK, ALL TEMPORARY DEVICES SHALL BE REMOVED. ALL WORK ZONE PRACTICES AND PRECAUTIONS SHALL BE IN ACCORDANCE WITH THE 2011 EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUAL.
- 6. THE REQUIRED CITY OF NORFOLK RIGHT-OF-WAY PERMIT SHALL BE OBTAINED FOR THE WORK PROVIDED UNDER THIS CONTRACT. A RIGHT-OF-WAY PERMIT APPLICATION IS TO BE SUBMITTED TO THE CITY OF NORFOLK DEPARTMENT OF PUBLIC WORKS DIVISION OF RIGHT-OF-WAY AT THE SAME TIME AS THE TRAFFIC CONTROL PLAN.
- 7. NO LANE CLOSURES PERMITTED WITHOUT PERMIT FROM DIVISION OF RIGHT-OF-WAY AT 664-7306.
- 8. DISCREPANCIES BETWEEN DRAWINGS AND CONTRACT SPECIFICATIONS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY FOR CLARIFICATION.
- 9. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ALL FIELD CONDITIONS ENCOUNTERED WHICH ARE NOT SHOWN ON THE DRAWINGS AND WHICH WERE NOT REASONABLY ANTICIPATED.
- 10. THE CONSTRUCTION SITE, ADJACENT AREAS, AND RIGHT-OF-WAYS SHALL BE KEPT CLEAN AND CLEAR OF CONSTRUCTION DEBRIS AT ALL TIMES.
- 11. REFER TO THE CITY OF NORFOLK'S CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS FOR TRAFFIC SIGNALS -FY 2012 (INDEFINITE QUANTITY CONTRACT) FOR CLARIFICATION AND REQUIREMENTS FOR MATERIALS TO BE PROVIDED UNDER THIS CONTRACT. CONSTRUCTION AND INSTALLATION METHODS SHALL BE AS STATED IN THE 'PROJECT SPECIAL PROVISIONS' UNLESS OTHERWISE STATED AND DOCUMENTED BY THE ENGINEER.

#### **CONSTRUCTION NOTES:**

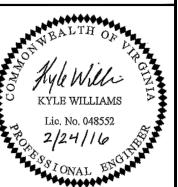
- 1. ALL TRAFFIC CONTROL ITEMS WILL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE 2007 EDITION OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS. CONTRACTOR SHALL INSTALL ALL CONSTRUCTION ITEMS WITHIN EXISTING CITY OF NORFOLK RIGHT-OF-WAY. ADDITIONAL EASEMENTS AND/OR RIGHT-OF-WAY ARE NOT ALLOWED FOR CONSTRUCTION AND/OR MOBILIZATION.
- 2. CONTRACTOR SHALL INSTALL ALL TRAFFIC SIGNS, SIGNAL HEADS, AND PAVEMENT MARKINGS IN ACCORDANCE WITH THE 2009 EDITION OF THE MUTCD.
- 3. THE CONTRACTOR SHALL INSTALL LEGENDS, STOP BARS, CROSSWALKS, AND LANE LINES AS SHOWN ON THE PLAN SHEETS. THE CONTRACTOR WILL ERADICATE ANY EXISTING MARKINGS THAT INTERFERE OR CONFLICT WITH THE NEW MARKINGS.
- 4. PAVEMENT MARKINGS ON ASPHALT PAVEMENT SHALL BE TYPE B CLASS I THERMOPLASTIC. PAVEMENT MARKINGS ON CONCRETE PAVEMENT SHALL BE TYPE B CLASS VI PAVEMENT MARKING TAPE. CONCRETE PAVEMENT SECTIONS IN THIS PROJECT INCLUDE LLEWELLYN AVENUE FROM 23RD STREET TO 31ST STREET AND COLLEY AVENUE FROM 21ST STREET TO 25TH STREET. ALL OTHER PAVEMENT SECTIONS ARE ASPHALT.
- 5. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE 2008 EDITION OF THE VDOT ROAD AND BRIDGE STANDARDS, VOLUMES I AND II. WHERE PAVEMENT MARKINGS ARE ERADICATED, INSTALLATION OF NEW PAVEMENTS MARKINGS MUST BE COMPLETED WITHIN 24 HOURS. OTHERWISE, TEMPORARY PAVEMENT MARKINGS SHALL BE INSTALLED.
- 6. PAVEMENT MARKING AND SIGNING PLAN IS BASED ON PLANIMETRICS AND AERIAL IMAGERY, NOT ACTUAL SURVEY. DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS SHALL BE REPORTED TO THE CITY AND PROJECT ENGINEER PRIOR TO PERFORMING ANY FURTHER WORK.
- 7. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS. WHEN THESE PLANS ARE IN CONFLICT WITH ACTUAL SITE CONDITIONS, ANY DISCREPANCY SHALL BE REPORTED TO THE CITY TRANSPORTATION ENGINEER PRIOR TO BEGINNING WORK. PROPOSED PAVEMENT MARKINGS AND SIGNAGE MAY BE ADJUSTED BY THE CITY OR PROJECT ENGINEER.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING MISS UTILITY PRIOR TO BEGINNING WORK. ANY DAMAGE TO UTILITIES MUST BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- 9. SHOULD ERADICATION OF EXISTING PAVEMENT MARKINGS CAUSE DAMAGE TO THE PAVEMENT SECTION, THE CONTRACTOR SHALL CEASE WORK AND CONTACT THE CITY AND PROJECT ENGINEER FOR FURTHER DIRECTION.
- 10. THE CONTRACTOR SHALL EXERCISE A PROFESSIONAL STANDARD OF CARE WHEN PERFORMING ERADICATION NEAR TRAFFIC SIGNAL LOOP DETECTORS. SHOULD THE LOOP BE ACCIDENTALLY CUT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY TRANSPORTATION ENGINEER.
- 11. THE CONTRACTOR SHALL WORK CONTINUOUSLY AND NOT SKIP BLOCKS OR ROADWAY SEGMENTS. STRIPING ONE DIRECTION AT A TIME IS PERMISSIBLE.
- 12. STOP BARS SHALL BE LOCATED 10' FROM THE EXISTING PEDESTRIAN CROSSWALK. IF THE EXISTING STOP BAR IS LOCATED 10' FROM THE CROSSWALK OR GREATER. IT DOES NOT NEED TO BE RESTRIPED.
- 13. THE BICYCLE LANE INTERSECTION TREATMENTS SHOWN ON THE PLANS ARE FOR ILLUSTRATIVE PURPOSES ONLY. THE CONTRACTOR SHALL REFER TO THE APPROPRIATE DETAIL FOR ACTUAL PLACEMENT OF THE SHARED LANE MARKING WITHIN THE INTERSECTION.
- 14. THE BICYCLE LANE WIDTHS AND BUFFER WIDTHS SHALL BE STRIPED AS SHOWN ON THE PLANS. THE VEHICLE LANE WIDTHS WILL VARY BUT SHALL NOT BE LESS THAN 10'. SHOULD FIELD CONDITIONS CREATE A LANE OF LESS THAN 10', THE CITY AND PROJECT ENGINEER SHOULD BE NOTIFIED PRIOR TO INSTALLING THE STRIPING AS ADJUSTMENTS TO THE BIKE LANE WIDTHS MAY BE NEEDED.
- 15. TYPICAL SECTIONS ON EACH PLAN SHEET INCLUDE THE GUTTER PAN WIDTH IF ONE EXISTS (FACE-OF-CURB TO FACE-OF-CURB.)
- 16. FOR NEW SIGN POST INSTALLATION, THE CONTRACTOR SHALL VERIFY THAT THERE ARE NOT CONFLICTING OVERHEAD OR UNDERGROUND UTILITIES.
- 17. PROPOSED SIGNS AND POSTS SHALL BE CLEAR OF EXISTING FIRE HYDRANTS, SURFACE UTILITY, AND OVERHEAD UTILITY EQUIPMENT BY A MINIMUM OF 10'.
- 18. PROPOSED SIGN POSTS SHALL BE LOCATED A MINIMUM OF 2 FEET BEHIND ANY ADJACENT FACE OF CURB. IF LOCATED IN OR ADJACENT TO ANY SIDEWALK, A MINIMUM 32" CLEAR AND 48" PREFERRED PASSING SPACE SHALL BE MAINTAINED. SIGN MOUNTING HEIGHTS SHALL COMPLY WITH THE 2009 MUTCD.
- 19. PROPOSED SIGNS AND POSTS SHALL BE INSTALLED SO THEY DO NOT BLOCK THE VISIBILITY OF ANY EXISTING SIGNS OR TRAFFIC SIGNALS.
- 20. IF SIGNS ARE MOUNTED ON A POLE NOT OWNED BY THE CITY, WRITTEN PERMISSION MUST BE OBTAINED BY THE OWNER AND IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN.

#### **GENERAL TRAFFIC CONTROL NOTES:**

- ACCESS TO ALL PARCELS AND BUSINESS ENTRANCES MUST BE PROVIDED AT ALL TIMES. THIS WORK IS INCIDENTAL TO THE CONTRACT.
- 2. CHANNELIZING DEVICES MUST SEPARATE THE WORK AREA FROM THE TRAVEL AREA AND BE EXTENDED TO WHERE THEY ARE VISIBLE TO ONCOMING TRAFFIC.
- THE CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ALL PAVEMENT MARKINGS IDENTIFIED TO REMAIN, THAT ARE DESTROYED DUE TO CONSTRUCTION OR EXCAVATION.
- 4. PEDESTRIAN TRAFFIC SHALL BE MAINTAINED AROUND THE WORK SITE. PEDESTRIAN DETOURS SHALL BE PROVIDED BY THE CONTRACTOR. ACCESS TO ALL BUSINESSES SHALL BE MAINTAINED. ORANGE SAFETY FENCE SHALL BE USED TO KEEP PEDESTRIANS OUTSIDE OF WORK AREAS.
- 5. ALL SIDE STREETS TO REMAIN OPEN WITH TWO WAY TRAFFIC DURING CONSTRUCTION.
- 6. THE ALLOWABLE WORK HOURS SHALL BE 7:00 A.M. TO 6:00 P.M. THE CONTRACTOR SHALL SCHEDULE WORK TO MINIMIZE IMPACT ON THE PEAK TRAFFIC PERIODS. NO LANE CLOSURES SHALL BE PERMITTED ON COLLEY AVENUE BETWEEN OLNEY ROAD AND REDGATE AVENUE DURING PEAK PERIODS FROM 6:00 TO 9:00 AM AND 3:00 TO 6:00 P.M MONDAY THROUGH FRIDAY.

REVISIONS DATE BY





DATE
02/24/16
SCALE AS SHOWN
DESIGNED BY MMO
DRAWN BY MMO

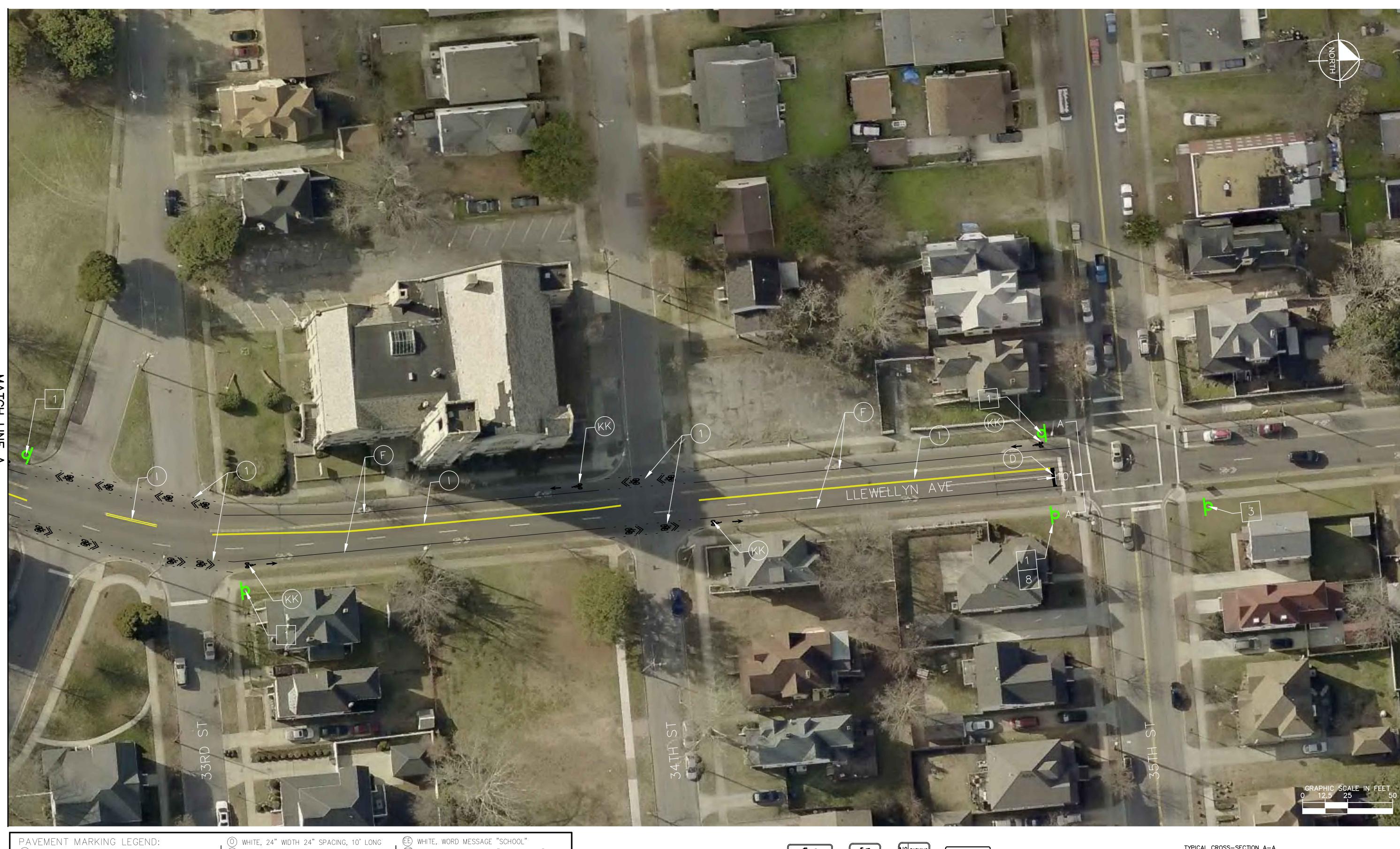
**ENERAL NOTES** 

SIGN PLANS

ARED FOR

NORFOLK

LOOP DESIGNATE OF NOTE OF NOTE



(A) WHITE, 4" WIDTH (B) WHITE, 4" WIDTH, 10' LONG, 30' SPACE

C) WHITE, 4" WIDTH, 2' LONG, 4' SPACE (D) WHITE, 24" WIDTH

E) WHITE, 6" WIDTH @ 45 DEGREES, 10' SPACE =) WHITE, 6" WIDTH

(G) WHITE, 8" WIDTH

(H) YELLOW, 4" WIDTH

YELLOW, DOUBLE LINE: 4" WIDTH & 4" WIDTH

@ 4" SPACING

J YELLOW, 24" WIDTH @ 45 DEGREES (K) YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE (L) WHITE, ELONGATED ARROW (S)

M YELLOW, 4" WIDTH, 2' LONG, 4' SPACE N YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING

P WHITE, 12" WIDTH, 10' LONG, 30' SPACE Q WHITE, 6" WIDTH, 10' LONG, 30' SPACE R WHITE, 4" WIDTH, 3' LONG, 9' SPACE

S WHITE, 6" WIDTH, 3' LONG, 9' SPACE T) WHITE, 8" WIDTH, 3' LONG, 9' SPACE WHITE, 12" WIDTH, 3' LONG, 9' SPACE

WHITE, 6" WIDTH, 2' LONG, 4' SPACE (W) YELLOW, 4" WIDTH, 10' LONG, 30' SPACE Y) WHITE, YIELD LINE

(Z) YELLOW, 6" WIDTH (A) WHITE, 12" WIDTH

(4) 6" WIDTH

© WHITE, WORD MESSAGE "ONLY" D WHITE, WORD MESSAGE "SLOW"

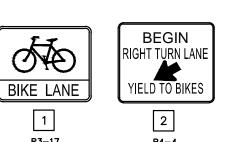
(F) WHITE, WORD MESSAGE "STOP AHEAD" GG WHITE, WORD MESSAGE (OTHER)

HH WHITE, WORD MESSAGE "YIELD" (II) WHITE, HOV SYMBOL (JJ) WHITE, SPEED HUMP MARKINGS

(K) WHITE, BICYCLE LANE SYMBOL AND ARROW (L) WHITE, BICYCLE LANE SYMBOL AND ARROW WITH GREEN FILL (M) WHITE, PRIORITY BICYCLE SHARROW SYMBOL

(N) WHITE, BICYCLE SHARROW SYMBOL (RR) WHITE, RAILROAD CROSSING SYMBOL • WHITE FLEX POST, 20' SPACE

(1) STANDARD INTERSECTION TREATMENT (2) ADVANCED INTERSECTION TREATMENT POST MOUNTED SIGN



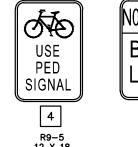
ENDS

TRAFFIC

PATTERN

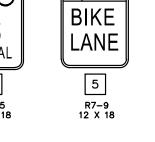


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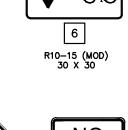


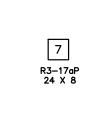
MUST

R3-7R 30 X 30

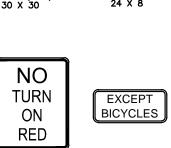


W11-1 30 X 30





AHEAD



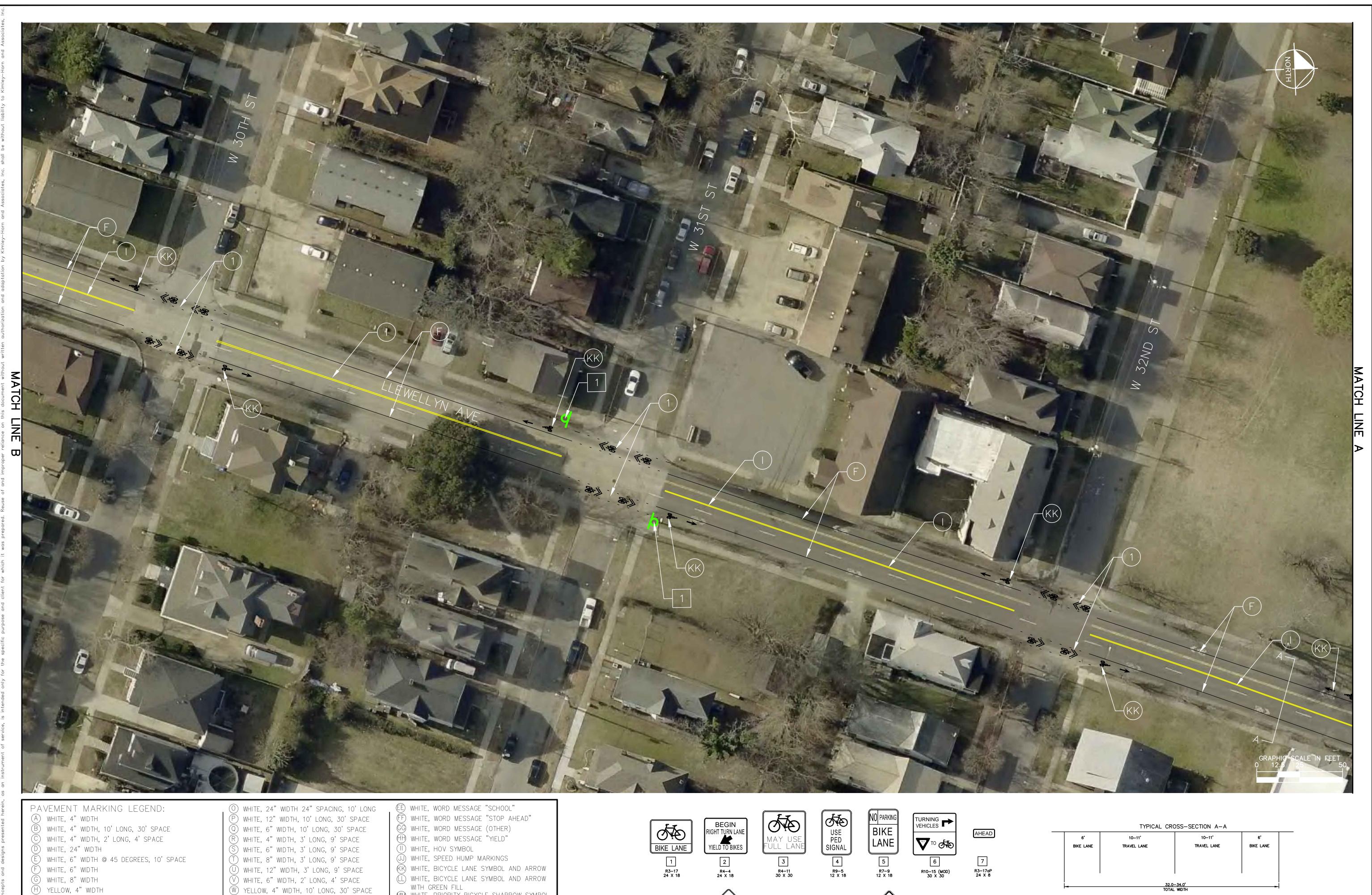
14 CUSTOM PLAQUE 24 X 12

TYPICAL CROSS-SECTION A-A BIKE LANE TRAVEL LANE TRAVEL LANE

BIKE LANE

BICYCLE ROUTE PIL
LOOP DESIGN PLAN
PREPARED FOR
CITY OF NORFOLK

**BICYCI** 



TRAFFIC PATTERN AHEAD

ENDS

MUST

MUST

NO TURN ON RED

EXCEPT BICYCLES

CUSTOM PLAQUE 24 X 12

(MM) WHITE, PRIORITY BICYCLE SHARROW SYMBOL

(NN) WHITE, BICYCLE SHARROW SYMBOL

• WHITE FLEX POST, 20' SPACE

POST MOUNTED SIGN

(R) WHITE, RAILROAD CROSSING SYMBOL

(1) STANDARD INTERSECTION TREATMENT

(2) ADVANCED INTERSECTION TREATMENT

(H) YELLOW, 4" WIDTH

YELLOW, DOUBLE LINE: 4" WIDTH & 4" WIDTH @ 4" SPACING

K YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE

N YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING

(J) YELLOW, 24" WIDTH @ 45 DEGREES

M YELLOW, 4" WIDTH, 2' LONG, 4' SPACE

(L) WHITE, ELONGATED ARROW (S)

Y) WHITE, YIELD LINE

(Z) YELLOW, 6" WIDTH

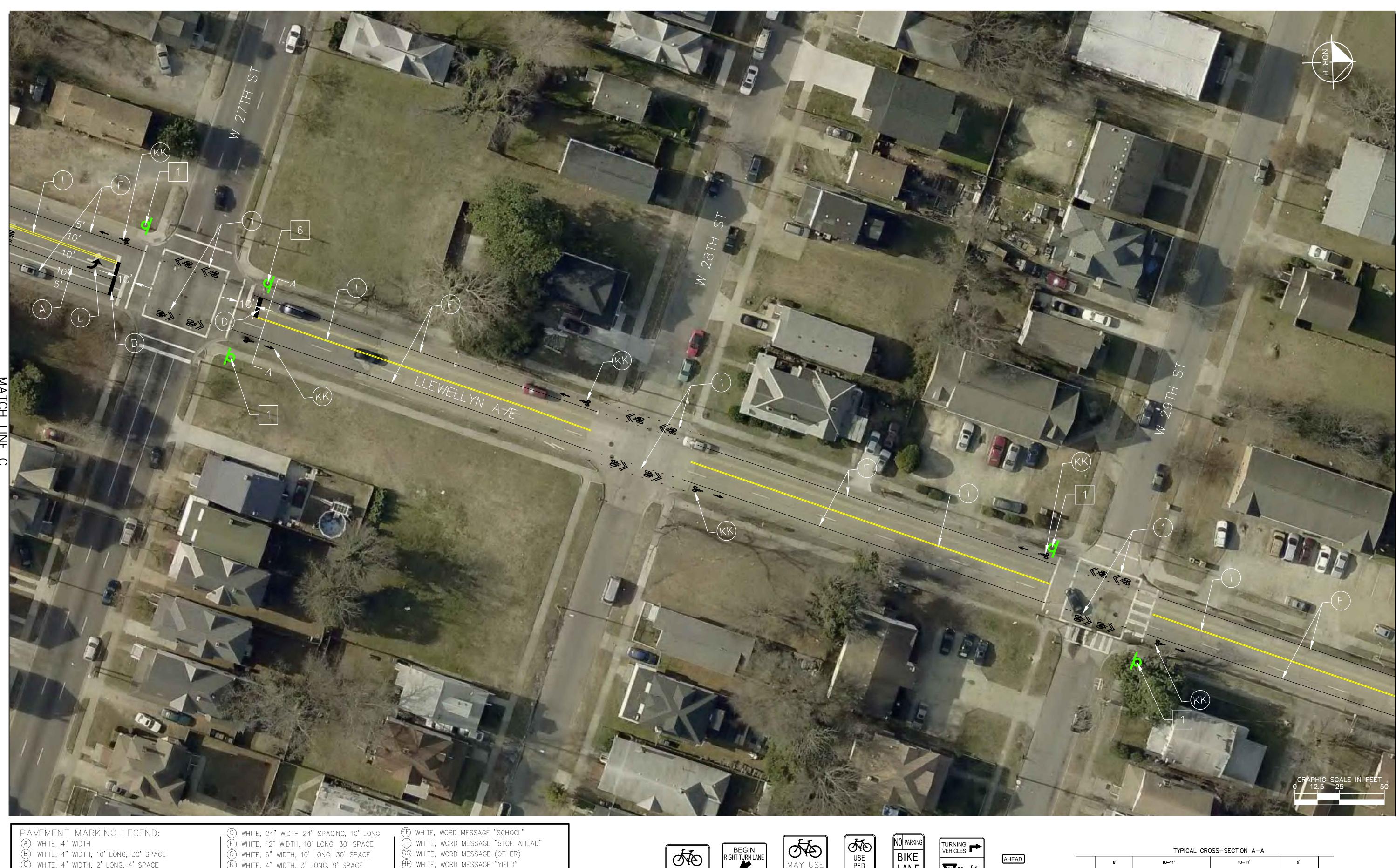
(A) WHITE, 12" WIDTH

(4) 6" WIDTH

© WHITE, WORD MESSAGE "ONLY"

D WHITE, WORD MESSAGE "SLOW"

E ROUTE PIL
DESIGN PLAN
REPARED FOR
'OF NORFOLK



C) WHITE, 4" WIDTH, 2' LONG, 4' SPACE

(D) WHITE, 24" WIDTH © WHITE, 6" WIDTH @ 45 DEGREES, 10' SPACE

(F) WHITE, 6" WIDTH

(G) WHITE, 8" WIDTH (H) YELLOW, 4" WIDTH

YELLOW, DOUBLE LINE: 4" WIDTH & 4" WIDTH @ 4" SPACING J YELLOW, 24" WIDTH @ 45 DEGREES

(K) YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE (L) WHITE, ELONGATED ARROW (S)

M YELLOW, 4" WIDTH, 2' LONG, 4' SPACE N YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING R) WHITE, 4" WIDTH, 3' LONG, 9' SPACE

WHITE, 6" WIDTH, 3' LONG, 9' SPACE WHITE, 8" WIDTH, 3' LONG, 9' SPACE WHITE, 12" WIDTH, 3' LONG, 9' SPACE

WHITE, 6" WIDTH, 2' LONG, 4' SPACE (W) YELLOW, 4" WIDTH, 10' LONG, 30' SPACE Y) WHITE, YIELD LINE

(Z) YELLOW, 6" WIDTH (A) WHITE, 12" WIDTH

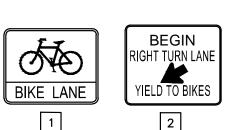
B WHITE, QUADRUPLE LINE: (4) 6" WIDTH (C) WHITE, WORD MESSAGE "ONLY" DD WHITE, WORD MESSAGE "SLOW"

(II) WHITE, HOV SYMBOL

(JJ) WHITE, SPEED HUMP MARKINGS (KK) WHITE, BICYCLE LANE SYMBOL AND ARROW (L) WHITE, BICYCLE LANE SYMBOL AND ARROW

(M) WHITE, PRIORITY BICYCLE SHARROW SYMBOL (N) WHITE, BICYCLE SHARROW SYMBOL (R) WHITE, RAILROAD CROSSING SYMBOL

• WHITE FLEX POST, 20' SPACE (1) STANDARD INTERSECTION TREATMENT 2 ADVANCED INTERSECTION TREATMENT POST MOUNTED SIGN



8 R3-17bP 24 X 8

NEW TRAFFIC PATTERN

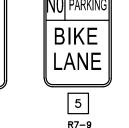


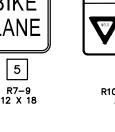
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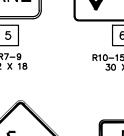
TURN LEFT



MUST





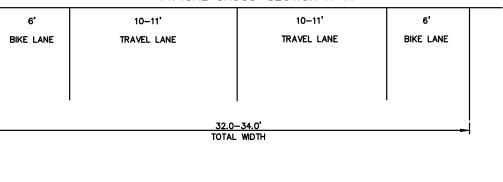








CUSTOM PLAQUE 24 X 12





SHEET NUMBER

BIKE LANE

TRAVEL LANE

(M) YELLOW, 4" WIDTH, 2' LONG, 4' SPACE N YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING

C) WHITE, 4" WIDTH, 2' LONG, 4' SPACE

E WHITE, 6" WIDTH @ 45 DEGREES, 10' SPACE

YELLOW, DOUBLE LINE: 4" WIDTH & 4" WIDTH

@ 4" SPACING

(J) YELLOW, 24" WIDTH @ 45 DEGREES

L) WHITE, ELONGATED ARROW (S)

(D) WHITE, 24" WIDTH

(F) WHITE, 6" WIDTH

(G) WHITE, 8" WIDTH

H YELLOW, 4" WIDTH

WHITE, 6" WIDTH, 10' LONG, 30' SPACE

(R) WHITE, 4" WIDTH, 3' LONG, 9' SPACE S) white, 6" width, 3' long, 9' space T) WHITE, 8" WIDTH, 3' LONG, 9' SPACE

WHITE, 12" WIDTH, 3' LONG, 9' SPACE WHITE, 6" WIDTH, 2' LONG, 4' SPACE (W) YELLOW, 4" WIDTH, 10' LONG, 30' SPACE

Y) WHITE, YIELD LINE (Z) YELLOW, 6" WIDTH (AA) WHITE, 12" WIDTH (K) YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE

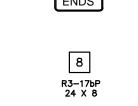
(4) 6" WIDTH (C) WHITE, WORD MESSAGE "ONLY" DD WHITE, WORD MESSAGE "SLOW"

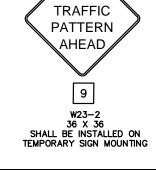
GG WHITE, WORD MESSAGE (OTHER) (H) WHITE, WORD MESSAGE "YIELD" (II) WHITE, HOV SYMBOL (JJ) WHITE, SPEED HUMP MARKINGS (K) WHITE, BICYCLE LANE SYMBOL AND ARROW

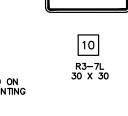
(L) WHITE, BICYCLE LANE SYMBOL AND ARROW WITH GREEN FILL MM WHITE, PRIORITY BICYCLE SHARROW SYMBOL (NN) WHITE, BICYCLE SHARROW SYMBOL

(R) WHITE, RAILROAD CROSSING SYMBOL • WHITE FLEX POST, 20' SPACE (1) STANDARD INTERSECTION TREATMENT (2) ADVANCED INTERSECTION TREATMENT

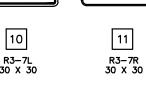
POST MOUNTED SIGN



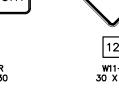


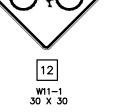


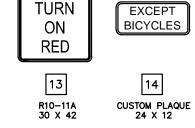
MUST



R9-5 12 X 18







NO TURN

R10-15 (MOD) 30 X 30

AHEAD

R3-17aP 24 X 8

BIKE LANE

TRAVEL LANE

CONTRACTOR SHALL ONLY REMOVE RAILROAD CROSSING MARKINGS WITHIN BIKE LANE. EXISTING MARKINGS TO REMAIN IN VEHICLE LANE.



(B) WHITE, 4" WIDTH, 10' LONG, 30' SPACE

C) WHITE, 4" WIDTH, 2' LONG, 4' SPACE (D) WHITE, 24" WIDTH

E) WHITE, 6" WIDTH @ 45 DEGREES, 10' SPACE

(F) WHITE, 6" WIDTH

(G) WHITE, 8" WIDTH

(H) YELLOW, 4" WIDTH YELLOW, DOUBLE LINE: 4" WIDTH & 4" WIDTH @ 4" SPACING

J YELLOW, 24" WIDTH @ 45 DEGREES

(K) YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE

D) WHITE, ELONGATED ARROW (S)

M YELLOW, 4" WIDTH, 2' LONG, 4' SPACE

N YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING

WHITE, 6" WIDTH, 10' LONG, 30' SPACE R WHITE, 4" WIDTH, 3' LONG, 9' SPACE

(S) WHITE, 6" WIDTH, 3' LONG, 9' SPACE T) WHITE, 8" WIDTH, 3' LONG, 9' SPACE

U WHITE, 12" WIDTH, 3' LONG, 9' SPACE WHITE, 6" WIDTH, 2' LONG, 4' SPACE W YELLOW, 4" WIDTH, 10' LONG, 30' SPACE Y) WHITE, YIELD LINE

(Z) YELLOW, 6" WIDTH

(A) WHITE, 12" WIDTH BB WHITE, QUADRUPLE LINE: (4) 6" WIDTH

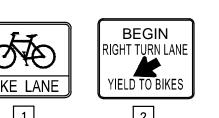
© WHITE, WORD MESSAGE "ONLY" D WHITE, WORD MESSAGE "SLOW" (H) WHITE, WORD MESSAGE "YIELD" (II) WHITE, HOV SYMBOL

(JJ) WHITE, SPEED HUMP MARKINGS (K) WHITE, BICYCLE LANE SYMBOL AND ARROW

(L) WHITE, BICYCLE LANE SYMBOL AND ARROW WITH GREEN FILL (MM) WHITE, PRIORITY BICYCLE SHARROW SYMBOL (N) WHITE, BICYCLE SHARROW SYMBOL

(RR) WHITE, RAILROAD CROSSING SYMBOL • WHITE FLEX POST, 20' SPACE (1) STANDARD INTERSECTION TREATMENT (2) ADVANCED INTERSECTION TREATMENT

POST MOUNTED SIGN

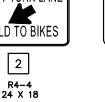


ENDS

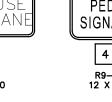


TRAFFIC

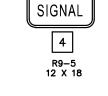
PATTERN





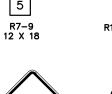


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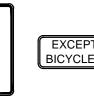


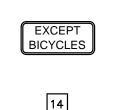
MUST





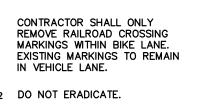




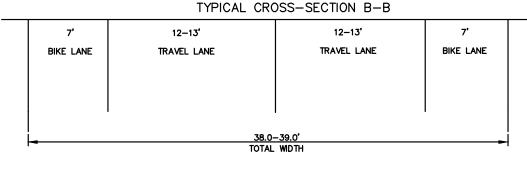


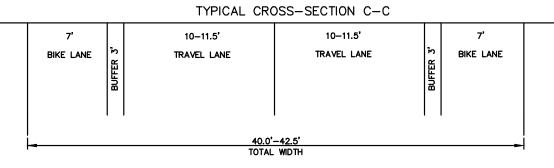
CUSTOM PLAQUE 24 X 12

R3-17aP 24 X 8



2 DO NOT ERADICATE.







NO TURN ON RED

13 R10-11A 30 X 42

12 W11-1 30 X 30

EXCEPT BICYCLES

CUSTOM PLAQUE 24 X 12

RIGHT LANE

MUST

11 R3-7R 30 X 30

MUST

TURN LEFT

TRAFFIC

PATTERN

ENDS

8 R3-17bP 24 X 8

(JJ) WHITE, SPEED HUMP MARKINGS

(N) WHITE, BICYCLE SHARROW SYMBOL

• WHITE FLEX POST, 20' SPACE

R) WHITE, RAILROAD CROSSING SYMBOL

(1) STANDARD INTERSECTION TREATMENT

(2) ADVANCED INTERSECTION TREATMENT

WITH GREEN FILL

POST MOUNTED SIGN

(K) WHITE, BICYCLE LANE SYMBOL AND ARROW

WHITE, BICYCLE LANE SYMBOL AND ARROW

MM WHITE, PRIORITY BICYCLE SHARROW SYMBOL

WHITE, 8" WIDTH, 3' LONG, 9' SPACE

WHITE, 12" WIDTH, 3' LONG, 9' SPACE

WHITE, 6" WIDTH, 2' LONG, 4' SPACE

Y) WHITE, YIELD LINE

(Z) YELLOW, 6" WIDTH

ÁÀ) WHITE, 12" WIDTH

(W) YELLOW, 4" WIDTH, 10' LONG, 30' SPACE

(4) 6" WIDTH

(C) WHITE, WORD MESSAGE "ONLY"

OD WHITE, WORD MESSAGE "SLOW"

E) WHITE, 6" WIDTH @ 45 DEGREES, 10' SPACE

YELLOW, DOUBLE LINE: 4" WIDTH & 4" WIDTH @ 4" SPACING

(K) YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE

YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH,

J YELLOW, 24" WIDTH @ 45 DEGREES

M YELLOW, 4" WIDTH, 2' LONG, 4' SPACE

10" LONG, 30' SPACE @ 4" SPACING

L) WHITE, ELONGATED ARROW (S)

) WHITE, 6" WIDTH

(G) WHITE, 8" WIDTH

(H) YELLOW, 4" WIDTH

BICYCLE ROUTE PILOT
LOOP DESIGN PLANS
PREPARED FOR
CITY OF NORFOLK



WHITE, 4" WIDTH, 2' LONG, 4' SPACE (D) WHITE, 24" WIDTH

WHITE, 6" WIDTH @ 45 DEGREES, 10' SPACE ) WHITE, 6" WIDTH

G) WHITE, 8" WIDTH

(H) YELLOW, 4" WIDTH

YELLOW, DOUBLE LINE: 4" WIDTH & 4" WIDTH

@ 4" SPACING

J YELLOW, 24" WIDTH @ 45 DEGREES (K) YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE (S) WHITE, ELONGATED ARROW

M YELLOW, 4" WIDTH, 2' LONG, 4' SPACE

N YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING

R) WHITE, 4" WIDTH, 3' LONG, 9' SPACE WHITE, 6" WIDTH, 3' LONG, 9' SPACE WHITE, 8" WIDTH, 3' LONG, 9' SPACE

WHITE, 12" WIDTH, 3' LONG, 9' SPACE WHITE, 6" WIDTH, 2' LONG, 4' SPACE (W) YELLOW, 4" WIDTH, 10' LONG, 30' SPACE

Y) WHITE, YIELD LINE (Z) YELLOW, 6" WIDTH

ÁA) WHITE, 12" WIDTH (4) 6" WIDTH

© WHITE, WORD MESSAGE "ONLY" D WHITE, WORD MESSAGE "SLOW"

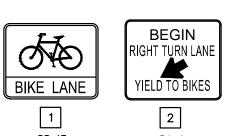
(H) WHITE, WORD MESSAGE "YIELD" (II) WHITE, HOV SYMBOL (JJ) WHITE, SPEED HUMP MARKINGS

(K) WHITE, BICYCLE LANE SYMBOL AND ARROW (L) WHITE, BICYCLE LANE SYMBOL AND ARROW

WITH GREEN FILL MM WHITE, PRIORITY BICYCLE SHARROW SYMBOL (N) WHITE, BICYCLE SHARROW SYMBOL (R) WHITE, RAILROAD CROSSING SYMBOL

• WHITE FLEX POST, 20' SPACE (1) STANDARD INTERSECTION TREATMENT (2) ADVANCED INTERSECTION TREATMENT

POST MOUNTED SIGN



ENDS

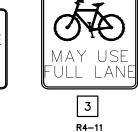
8 R3-17bP 24 X 8

NEW

TRAFFIC

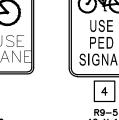
PATTERN

AHEAD



MUST

TURN LEF



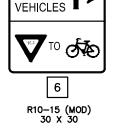
RIGHT LANE

TURN RIGH

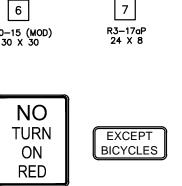
R3-7R 30 X 30

MUST



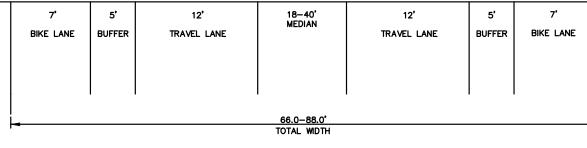








CUSTOM PLAQUE 24 X 12



1 FLEX POSTS SHALL BE CENTERED BETWEEN LONGITUDINAL PAVEMENT MARKINGS, SPACED AT 20'. SEE DETAIL ON SHEET 30.

BICYCLE ROUTE PILOT
LOOP DESIGN PLANS
PREPARED FOR
CITY OF NORFOLK



C) WHITE, 4" WIDTH, 2' LONG, 4' SPACE

(D) WHITE, 24" WIDTH © WHITE, 6" WIDTH @ 45 DEGREES, 10' SPACE

(F) WHITE, 6" WIDTH

(G) WHITE, 8" WIDTH (H) YELLOW, 4" WIDTH

YELLOW, DOUBLE LINE: 4" WIDTH & 4" WIDTH @ 4" SPACING

(J) YELLOW, 24" WIDTH @ 45 DEGREES (K) YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE

(L) WHITE, ELONGATED ARROW (S) M YELLOW, 4" WIDTH, 2' LONG, 4' SPACE

YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING

R) WHITE, 4" WIDTH, 3' LONG, 9' SPACE WHITE, 6" WIDTH, 3' LONG, 9' SPACE ) WHITE, 8" WIDTH, 3' LONG, 9' SPACE

) WHITE, 12" WIDTH, 3' LONG, 9' SPACE WHITE, 6" WIDTH, 2' LONG, 4' SPACE W YELLOW, 4" WIDTH, 10' LONG, 30' SPACE

Y) WHITE, YIELD LINE Z YELLOW, 6" WIDTH

(A) WHITE, 12" WIDTH (4) 6" WIDTH (C) WHITE, WORD MESSAGE "ONLY"

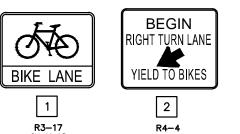
D WHITE, WORD MESSAGE "SLOW"

(II) WHITE, HOV SYMBOL (JJ) WHITE, SPEED HUMP MARKINGS (K) WHITE, BICYCLE LANE SYMBOL AND ARROW (L) WHITE, BICYCLE LANE SYMBOL AND ARROW WITH GREEN FILL (MM) WHITE, PRIORITY BICYCLE SHARROW SYMBOL

(N) WHITE, BICYCLE SHARROW SYMBOL (R) WHITE, RAILROAD CROSSING SYMBOL • WHITE FLEX POST, 20' SPACE (1) STANDARD INTERSECTION TREATMENT

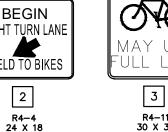
2 ADVANCED INTERSECTION TREATMENT

POST MOUNTED SIGN



ENDS

8 R3-17bP 24 X 8



TRAFFIC PATTERN



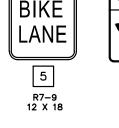
RIGHT LANE

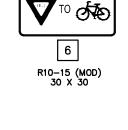
MUST

LEFT LANE

MUST



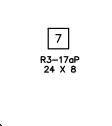




NO TURN

ON RED

13 R10-11A 30 X 42

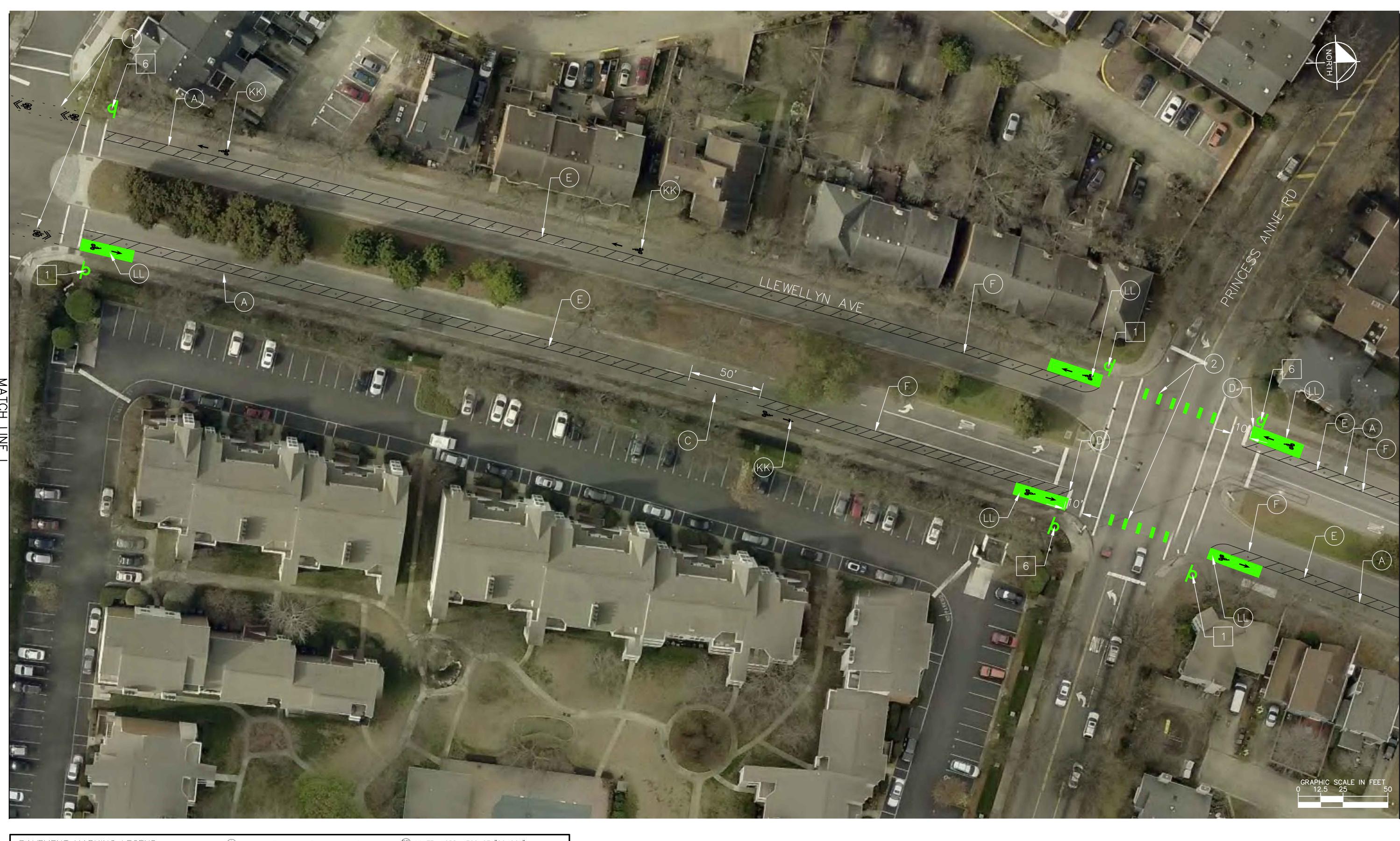




CUSTOM PLAQUE 24 X 12

BIKE LANE BUFFER TRAVEL LANE TRAVEL LANE

BUFFER BIKE LANE



PAVEMENT MARKING LEGEND: (A) WHITE, 4" WIDTH

B WHITE, 4" WIDTH, 10' LONG, 30' SPACE (C) WHITE, 4" WIDTH, 2' LONG, 4' SPACE

(D) WHITE, 24" WIDTH

(E) WHITE, 6" WIDTH @ 45 DEGREES, 10' SPACE F) WHITE, 6" WIDTH

(G) WHITE, 8" WIDTH (H) YELLOW, 4" WIDTH

YELLOW, DOUBLE LINE: 4" WIDTH & 4" WIDTH @ 4" SPACING

J YELLOW, 24" WIDTH @ 45 DEGREES

(K) YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE (L) WHITE, ELONGATED ARROW (S)

M YELLOW, 4" WIDTH, 2' LONG, 4' SPACE YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING O WHITE, 24" WIDTH 24" SPACING, 10' LONG ) WHITE, 12" WIDTH, 10' LONG, 30' SPACE

Q) WHITE, 6" WIDTH, 10' LONG, 30' SPACE R) WHITE, 4" WIDTH, 3' LONG, 9' SPACE ) WHITE, 6" WIDTH, 3' LONG, 9' SPACE

) WHITE, 8" WIDTH, 3' LONG, 9' SPACE WHITE, 12" WIDTH, 3' LONG, 9' SPACE WHITE, 6" WIDTH, 2' LONG, 4' SPACE W YELLOW, 4" WIDTH, 10' LONG, 30' SPACE

(Y) WHITE, YIELD LINE Z YELLOW, 6" WIDTH

(A) WHITE, 12" WIDTH BB WHITE, QUADRUPLE LINE: (4) 6" WIDTH © WHITE, WORD MESSAGE "ONLY"

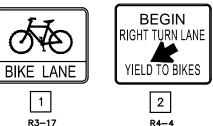
D WHITE, WORD MESSAGE "SLOW"

E WHITE, WORD MESSAGE "SCHOOL" FF WHITE, WORD MESSAGE "STOP AHEAD" GG WHITE, WORD MESSAGE (OTHER) (H) WHITE, WORD MESSAGE "YIELD"

(II) WHITE, HOV SYMBOL (JJ) WHITE, SPEED HUMP MARKINGS (K) WHITE, BICYCLE LANE SYMBOL AND ARROW

(L) WHITE, BICYCLE LANE SYMBOL AND ARROW WITH GREEN FILL (MM) WHITE, PRIORITY BICYCLE SHARROW SYMBOL (N) WHITE, BICYCLE SHARROW SYMBOL (R) WHITE, RAILROAD CROSSING SYMBOL

• White flex post, 20' space (1) STANDARD INTERSECTION TREATMENT (2) ADVANCED INTERSECTION TREATMENT POST MOUNTED SIGN

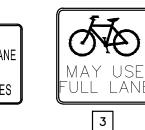


ENDS

8 R3-17bP 24 X 8

TRAFFIC

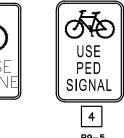
PATTERN



LEFT LANE

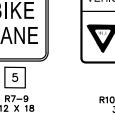
MUST

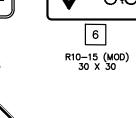
TURN LEFT

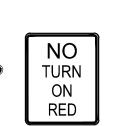


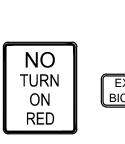
MUST





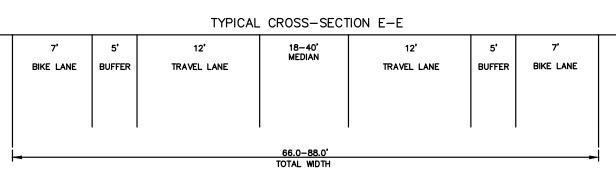








CUSTOM PLAQUE 24 X 12





B) WHITE, 4" WIDTH, 10' LONG, 30' SPACE

© WHITE, 4" WIDTH, 2' LONG, 4' SPACE (D) WHITE, 24" WIDTH

(E) WHITE, 6" WIDTH @ 45 DEGREES, 10' SPACE

(F) WHITE, 6" WIDTH (G) WHITE, 8" WIDTH

(H) YELLOW, 4" WIDTH

YELLOW, DOUBLE LINE: 4" WIDTH & 4" WIDTH @ 4" SPACING

(J) YELLOW, 24" WIDTH @ 45 DEGREES K YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE WHITE, ELONGATED ARROW (S)

M YELLOW, 4" WIDTH, 2' LONG, 4' SPACE N YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING WHITE, 6" WIDTH, 10' LONG, 30' SPACE R) WHITE, 4" WIDTH, 3' LONG, 9' SPACE

S WHITE, 6" WIDTH, 3' LONG, 9' SPACE T) WHITE, 8" WIDTH, 3' LONG, 9' SPACE U WHITE, 12" WIDTH, 3' LONG, 9' SPACE WHITE, 6" WIDTH, 2' LONG, 4' SPACE W YELLOW, 4" WIDTH, 10' LONG, 30' SPACE

(Y) WHITE, YIELD LINE Z YELLOW, 6" WIDTH

DD WHITE, WORD MESSAGE "SLOW"

(AA) WHITE, 12" WIDTH B WHITE, QUADRUPLE LINE: (4) 6" WIDTH © WHITE, WORD MESSAGE "ONLY"

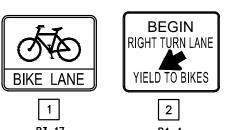
(II) WHITE, HOV SYMBOL (JJ) WHITE, SPEED HUMP MARKINGS (K) WHITE, BICYCLE LANE SYMBOL AND ARROW

(H) WHITE, WORD MESSAGE "YIELD"

(L) WHITE, BICYCLE LANE SYMBOL AND ARROW WITH GREEN FILL (M) WHITE, PRIORITY BICYCLE SHARROW SYMBOL

(N) WHITE, BICYCLE SHARROW SYMBOL (RR) WHITE, RAILROAD CROSSING SYMBOL • WHITE FLEX POST, 20' SPACE

(1) STANDARD INTERSECTION TREATMENT (2) ADVANCED INTERSECTION TREATMENT POST MOUNTED SIGN



ENDS

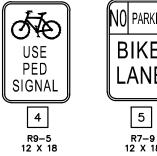
8 R3-17bP 24 X 8

TRAFFIC

PATTERN



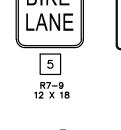
MUST

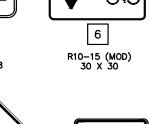


RIGHT LANE

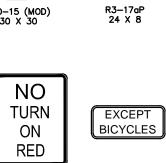
MUST

TURN RIGH



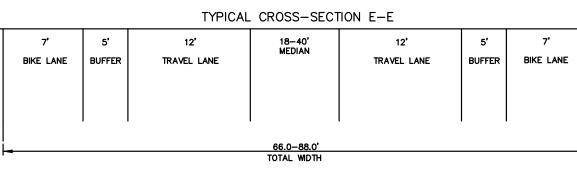


13 R10-11A 30 X 42

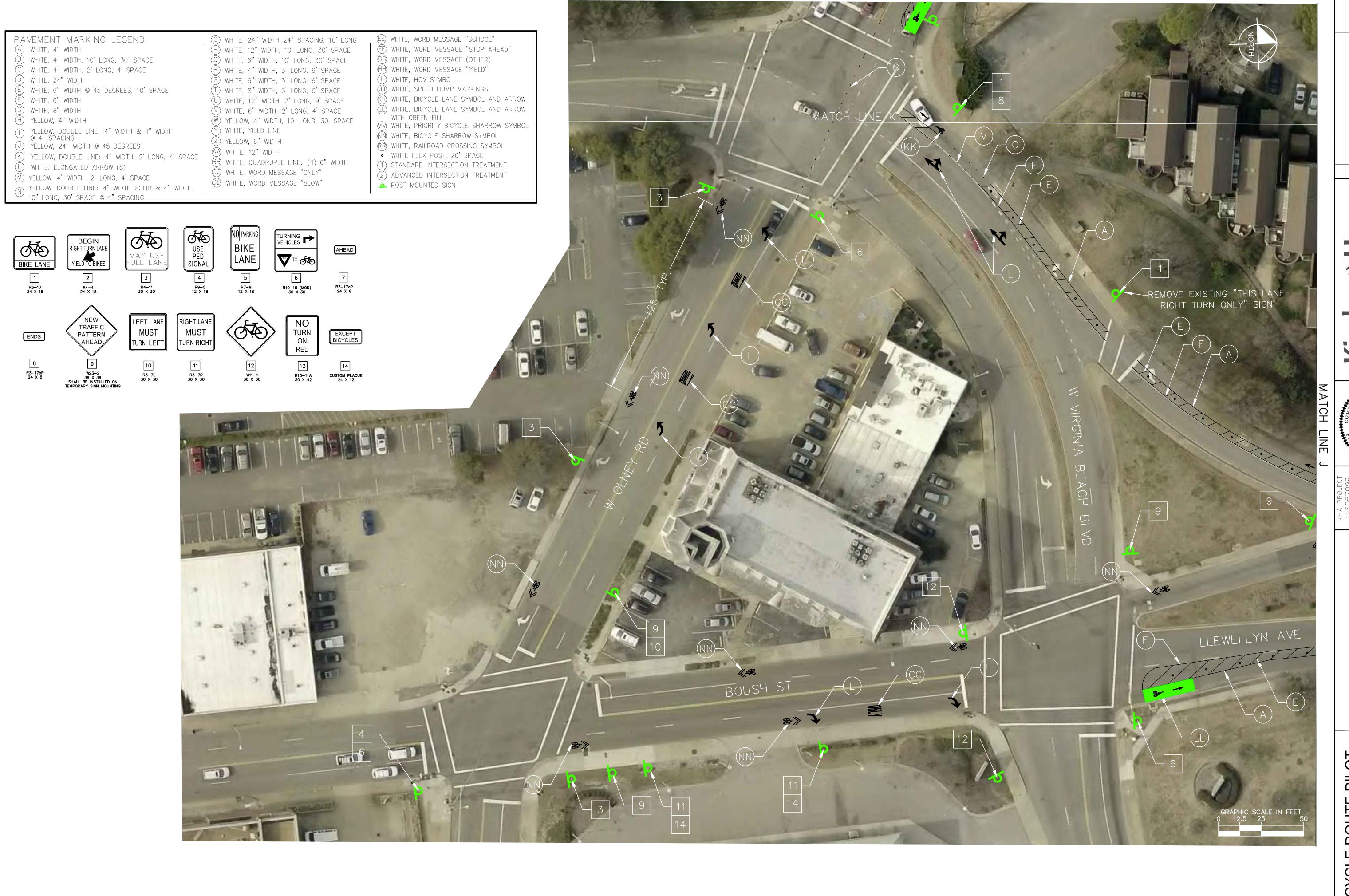


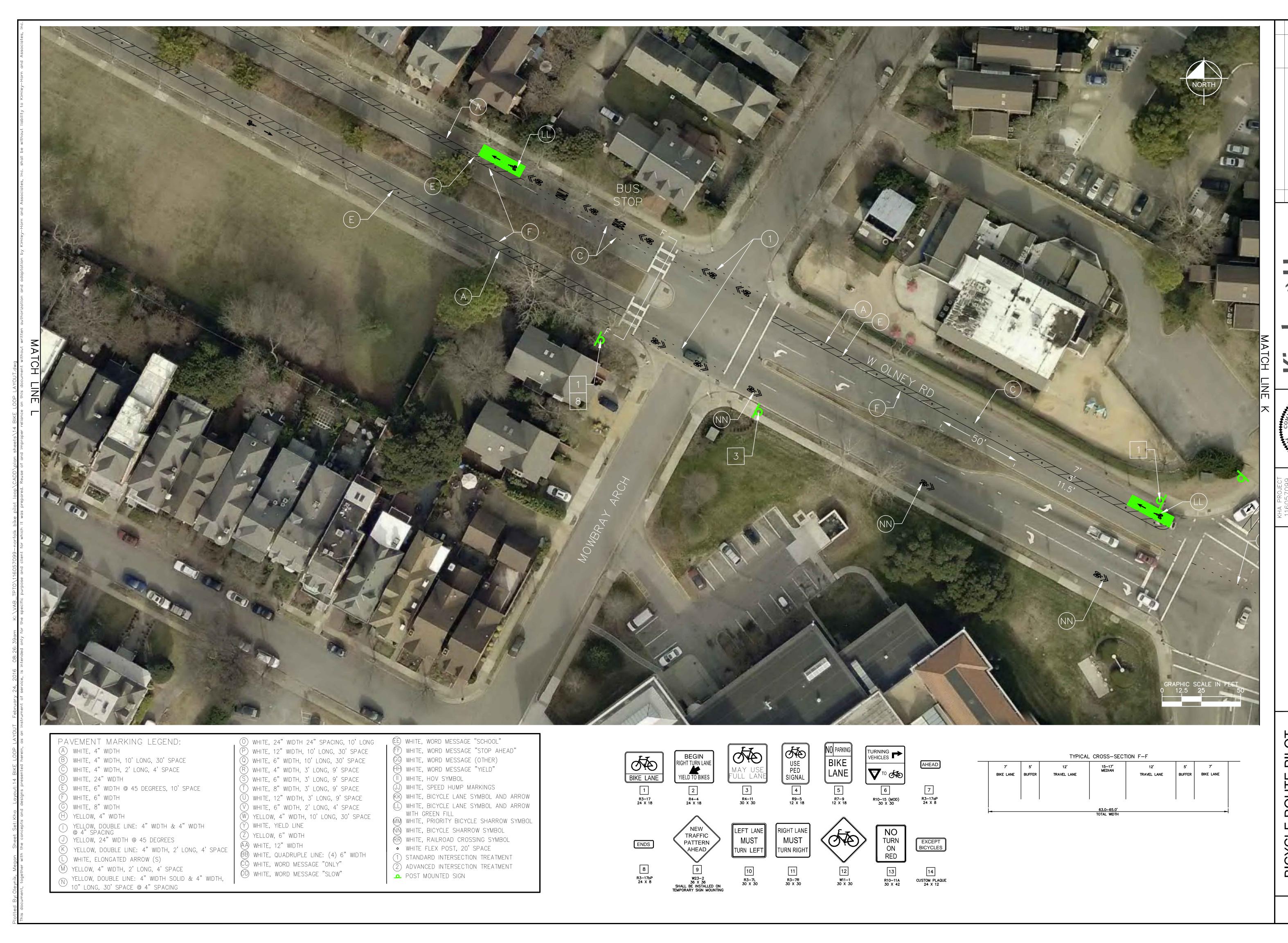
CUSTOM PLAQUE 24 X 12

AHEAD



BICYCLE ROUTE PILL
LOOP DESIGN PLAN
PREPARED FOR
CITY OF NORFOLK





BICYCLE ROUTE PILOT
LOOP DESIGN PLANS
PREPARED FOR
CITY OF NORFOLK



BICYCLE ROUTE PIL
LOOP DESIGN PLAN
PREPARED FOR
CITY OF NORFOLK



BICYCLE ROUTE PILOT
LOOP DESIGN PLANS
PREPARED FOR
CITY OF NORFOLK



(Z) YELLOW, 6" WIDTH

(A) WHITE, 12" WIDTH

(4) 6" WIDTH

© WHITE, WORD MESSAGE "ONLY"

D WHITE, WORD MESSAGE "SLOW"

(J) YELLOW, 24" WIDTH @ 45 DEGREES

M YELLOW, 4" WIDTH, 2' LONG, 4' SPACE

(L) WHITE, ELONGATED ARROW (S)

(K) YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE

N YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING

(R) WHITE, RAILROAD CROSSING SYMBOL

(1) STANDARD INTERSECTION TREATMENT

(2) ADVANCED INTERSECTION TREATMENT

• WHITE FLEX POST, 20' SPACE

POST MOUNTED SIGN

BICYCI

BICYCLE ROUTE PILL
LOOP DESIGN PLAN
PREPARED FOR
CITY OF NORFOLK

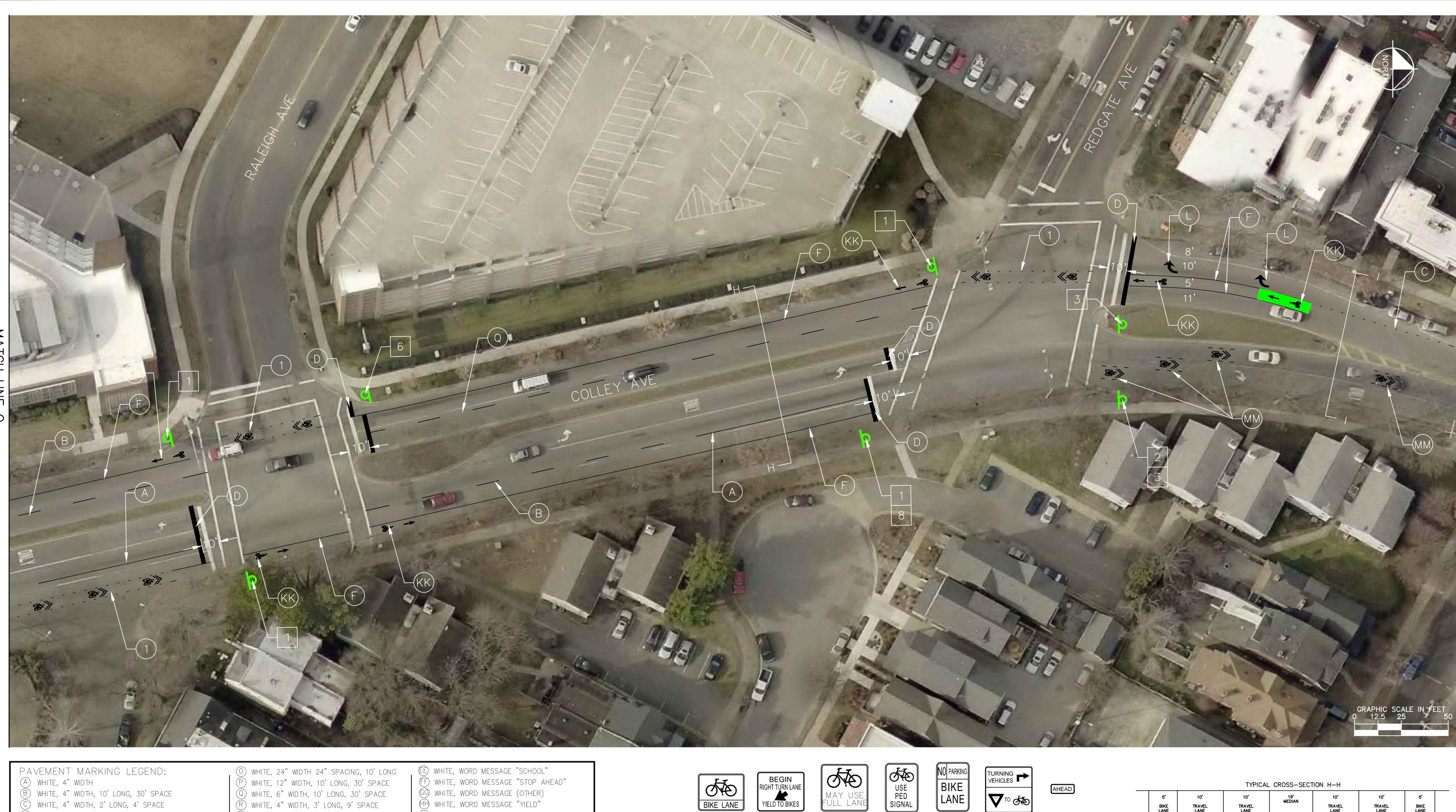
CUSTOM PLAQUE 24 X 12

TURN LEFT

8 R3–17bP 24 X 8

SHEET NUMBER

17



(B) WHITE, 4" WIDTH, 10' LONG, 30' SPACE

© WHITE, 4" WIDTH, 2' LONG, 4' SPACE (D) WHITE, 24" WIDTH

© WHITE, 6" WIDTH @ 45 DEGREES, 10' SPACE (F) WHITE, 6" WIDTH

(G) WHITE, 8" WIDTH

(H) YELLOW, 4" WIDTH

YELLOW, DOUBLE LINE: 4" WIDTH & 4" WIDTH @ 4" SPACING

J YELLOW, 24" WIDTH @ 45 DEGREES

(K) YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE (L) WHITE, ELONGATED ARROW (S)

M YELLOW, 4" WIDTH, 2' LONG, 4' SPACE

N YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING

P WHITE, 12" WIDTH, 10' LONG, 30' SPACE

WHITE, 6" WIDTH, 10' LONG, 30' SPACE R WHITE, 4" WIDTH, 3' LONG, 9' SPACE

S) WHITE, 6" WIDTH, 3' LONG, 9' SPACE T) WHITE, 8" WIDTH, 3' LONG, 9' SPACE (U) WHITE, 12" WIDTH, 3' LONG, 9' SPACE

WHITE, 6" WIDTH, 2' LONG, 4' SPACE (W) YELLOW, 4" WIDTH, 10' LONG, 30' SPACE (Y) WHITE, YIELD LINE

(Z) YELLOW, 6" WIDTH (A) WHITE, 12" WIDTH (4) 6" WIDTH

© WHITE, WORD MESSAGE "ONLY" D WHITE, WORD MESSAGE "SLOW"

GG WHITE, WORD MESSAGE (OTHER)

(H) WHITE, WORD MESSAGE "YIELD" (II) WHITE, HOV SYMBOL

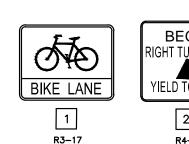
(JJ) WHITE, SPEED HUMP MARKINGS

(K) WHITE, BICYCLE LANE SYMBOL AND ARROW (L) WHITE, BICYCLE LANE SYMBOL AND ARROW WITH GREEN FILL

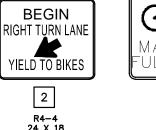
(M) WHITE, PRIORITY BICYCLE SHARROW SYMBOL (N) WHITE, BICYCLE SHARROW SYMBOL (R) WHITE, RAILROAD CROSSING SYMBOL

• WHITE FLEX POST, 20' SPACE (1) STANDARD INTERSECTION TREATMENT (2) ADVANCED INTERSECTION TREATMENT

POST MOUNTED SIGN



ENDS

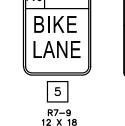


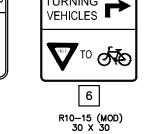
TRAFFIC

PATTERN

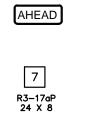


MUST



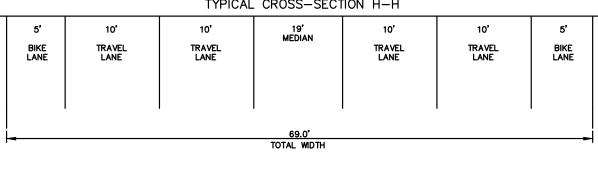


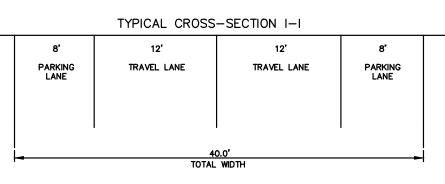
NO TURN ON RED





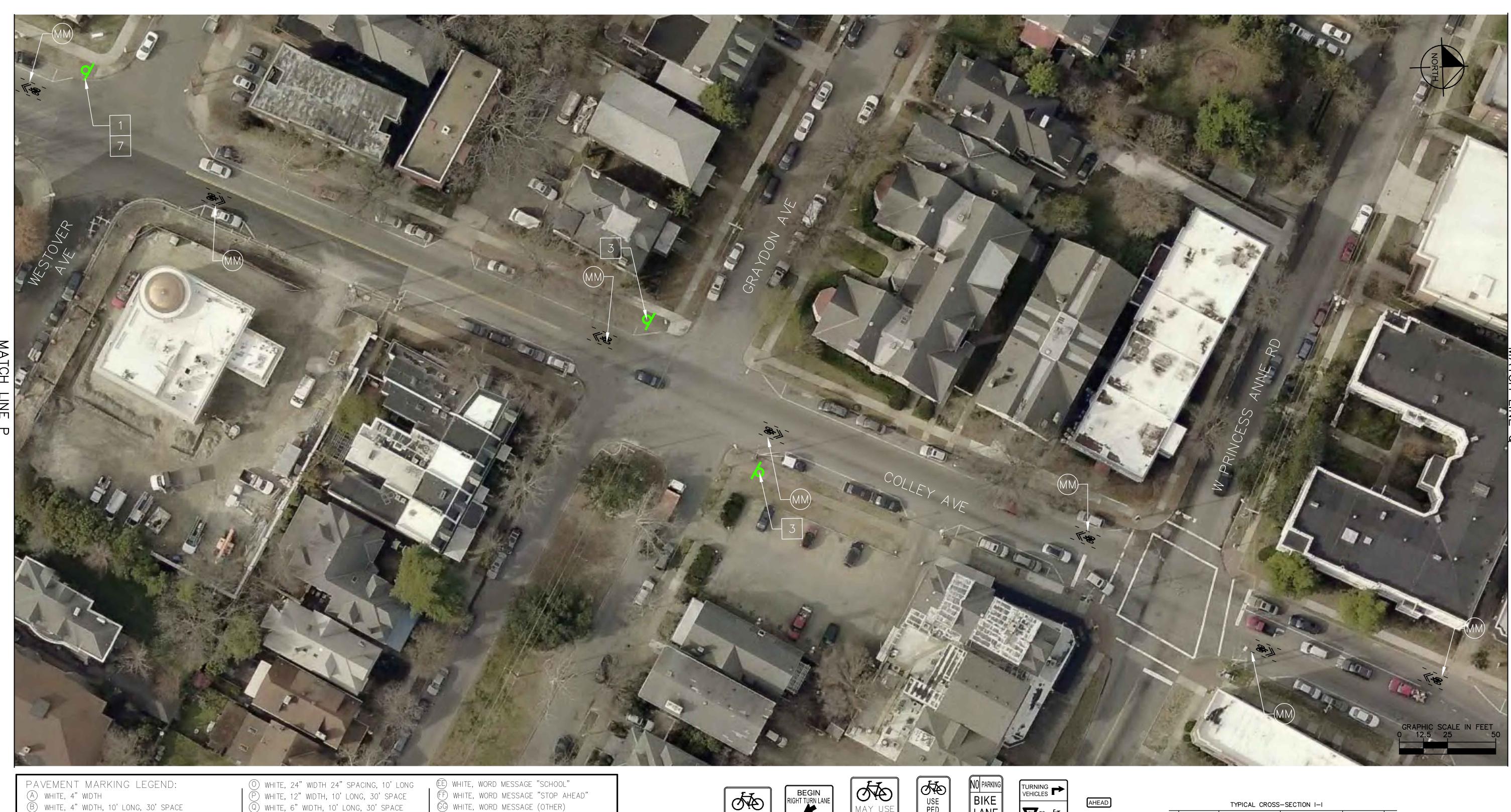
CUSTOM PLAQUE 24 X 12





BICYCLE ROUTE PILL
LOOP DESIGN PLAN
PREPARED FOR
CITY OF NORFOLK

**BICYCI** 



(B) WHITE, 4" WIDTH, 10' LONG, 30' SPACE

(C) WHITE, 4" WIDTH, 2' LONG, 4' SPACE

(D) WHITE, 24" WIDTH

(E) WHITE, 6" WIDTH @ 45 DEGREES, 10' SPACE (F) WHITE, 6" WIDTH

(G) WHITE, 8" WIDTH

(H) YELLOW, 4" WIDTH YELLOW, DOUBLE LINE: 4" WIDTH & 4" WIDTH @ 4" SPACING

J YELLOW, 24" WIDTH @ 45 DEGREES (K) YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE (L) WHITE, ELONGATED ARROW (S)

M YELLOW, 4" WIDTH, 2' LONG, 4' SPACE

N YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING

WHITE, 6" WIDTH, 10' LONG, 30' SPACE

R) WHITE, 4" WIDTH, 3' LONG, 9' SPACE

WHITE, 6" WIDTH, 3' LONG, 9' SPACE WHITE, 8" WIDTH, 3' LONG, 9' SPACE WHITE, 12" WIDTH, 3' LONG, 9' SPACE WHITE, 6" WIDTH, 2' LONG, 4' SPACE

W YELLOW, 4" WIDTH, 10' LONG, 30' SPACE Y) WHITE, YIELD LINE

(Z) YELLOW, 6" WIDTH (A) WHITE, 12" WIDTH

(B) WHITE, QUADRUPLE LINE: (4) 6" WIDTH

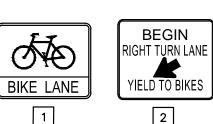
© WHITE, WORD MESSAGE "ONLY" OD WHITE, WORD MESSAGE "SLOW" HH WHITE, WORD MESSAGE "YIELD" (II) WHITE, HOV SYMBOL

(J) WHITE, SPEED HUMP MARKINGS (K) WHITE, BICYCLE LANE SYMBOL AND ARROW

(L) WHITE, BICYCLE LANE SYMBOL AND ARROW WITH GREEN FILL (MM) WHITE, PRIORITY BICYCLE SHARROW SYMBOL

(NN) WHITE, BICYCLE SHARROW SYMBOL (R) WHITE, RAILROAD CROSSING SYMBOL

• WHITE FLEX POST, 20' SPACE (1) STANDARD INTERSECTION TREATMENT (2) ADVANCED INTERSECTION TREATMENT POST MOUNTED SIGN



ENDS

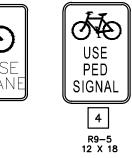
8 R3-17bP 24 X 8

TRAFFIC PATTERN



MUST

TURN LEFT



RIGHT LANE

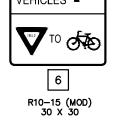
MUST

TURN RIGHT

11 R3-7R 30 X 30



W11-1 30 X 30



NO TURN ON RED

R10-11A 30 X 42



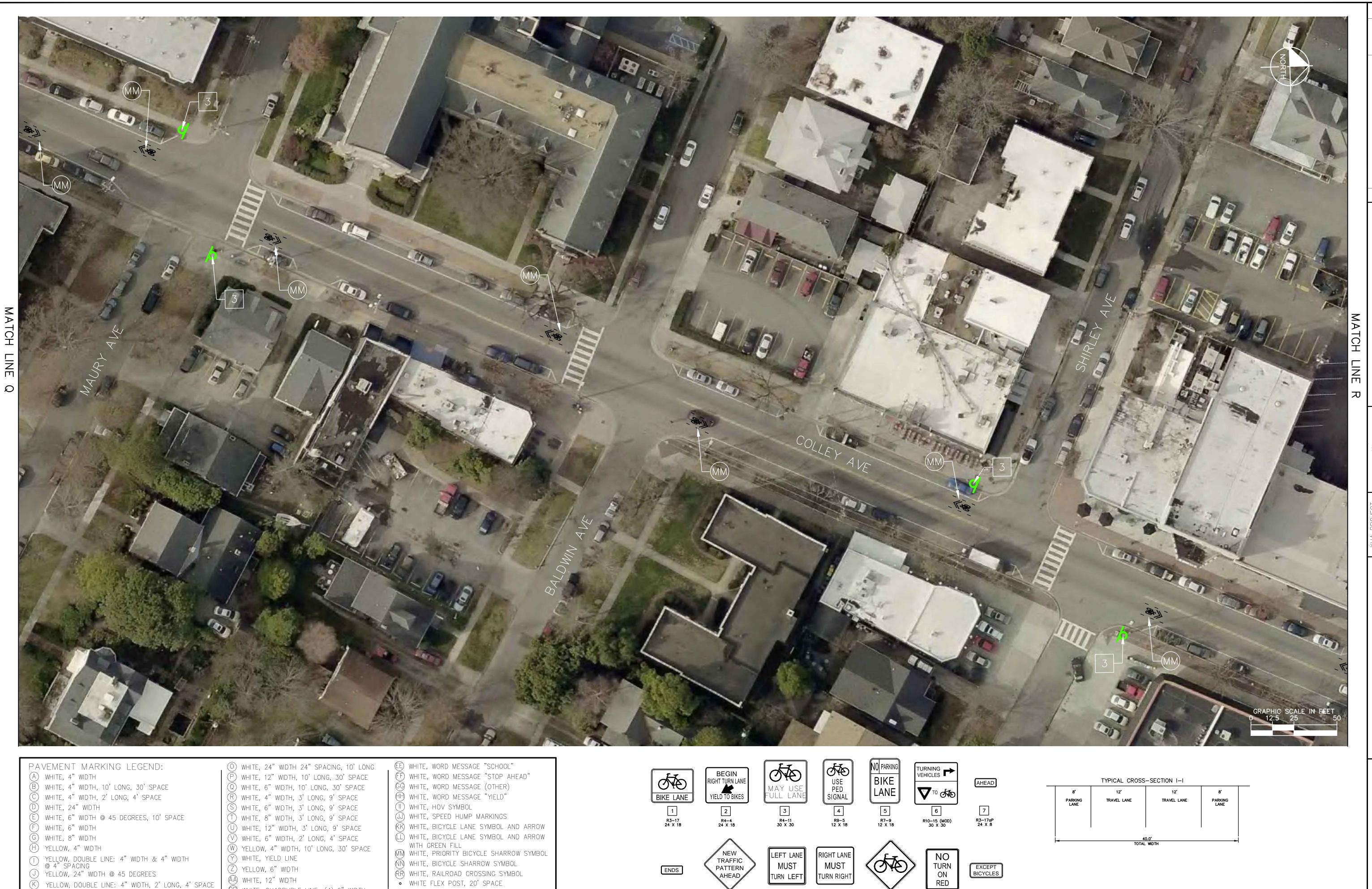


CUSTOM PLAQUE 24 X 12

PARKING LANE PARKING LANE TRAVEL LANE TRAVEL LANE

BICYCLE ROUTE PILOT
LOOP DESIGN PLANS
PREPARED FOR
CITY OF NORFOLK

**BICYCI** 



8 R3-17bP 24 X 8

13 R10-11A 30 X 42

CUSTOM PLAQUE 24 X 12

ÁÀ) WHITE, 12" WIDTH

(4) 6" WIDTH

© WHITE, WORD MESSAGE "ONLY"

DD WHITE, WORD MESSAGE "SLOW"

(K) YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE

N YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING

(L) WHITE, ELONGATED ARROW (S)

M YELLOW, 4" WIDTH, 2' LONG, 4' SPACE

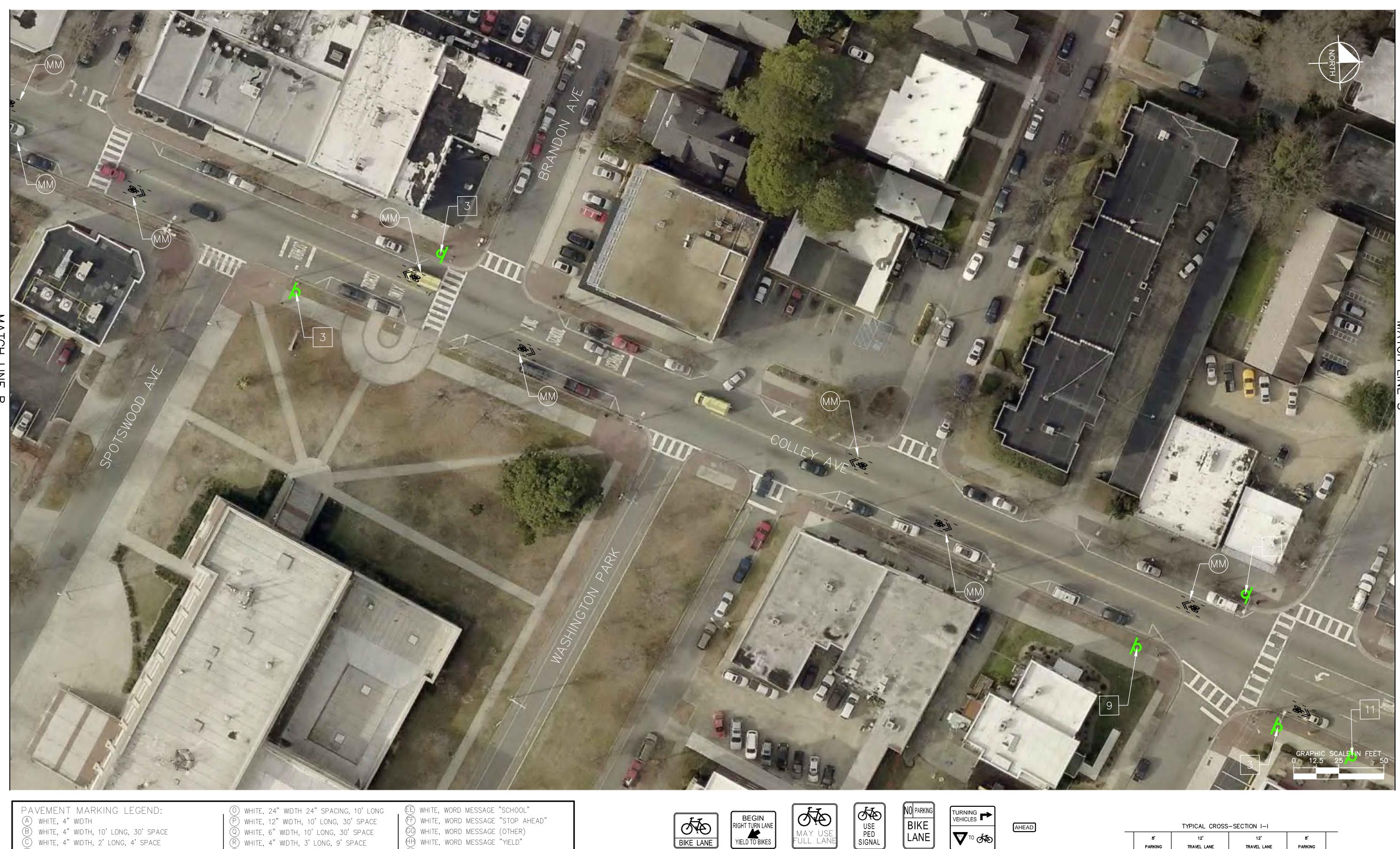
• WHITE FLEX POST, 20' SPACE

POST MOUNTED SIGN

(1) STANDARD INTERSECTION TREATMENT

2) ADVANCED INTERSECTION TREATMENT

BICYCLE ROUTE PILL
LOOP DESIGN PLAN
PREPARED FOR
CITY OF NORFOLK



(B) WHITE, 4" WIDTH, 10' LONG, 30' SPACE C) WHITE, 4" WIDTH, 2' LONG, 4' SPACE

(D) WHITE, 24" WIDTH (E) WHITE, 6" WIDTH @ 45 DEGREES, 10' SPACE

(F) WHITE, 6" WIDTH

© WHITE, 8" WIDTH

(H) YELLOW, 4" WIDTH

YELLOW, DOUBLE LINE: 4" WIDTH & 4" WIDTH @ 4" SPACING

J YELLOW, 24" WIDTH @ 45 DEGREES

K YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE (L) WHITE, ELONGATED ARROW (S)

M) YELLOW, 4" WIDTH, 2' LONG, 4' SPACE YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING

Q WHITE, 6" WIDTH, 10' LONG, 30' SPACE R WHITE, 4" WIDTH, 3' LONG, 9' SPACE

S) WHITE, 6" WIDTH, 3' LONG, 9' SPACE WHITE, 8" WIDTH, 3' LONG, 9' SPACE U) WHITE, 12" WIDTH, 3' LONG, 9' SPACE

WHITE, 6" WIDTH, 2' LONG, 4' SPACE W YELLOW, 4" WIDTH, 10' LONG, 30' SPACE (Y) WHITE, YIELD LINE

(Z) YELLOW, 6" WIDTH (A) WHITE, 12" WIDTH

(4) 6" WIDTH (C) WHITE, WORD MESSAGE "ONLY"

D WHITE, WORD MESSAGE "SLOW"

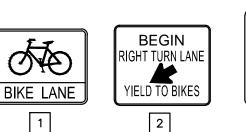
GG WHITE, WORD MESSAGE (OTHER)

HH WHITE, WORD MESSAGE "YIELD" (II) WHITE, HOV SYMBOL (JJ) WHITE, SPEED HUMP MARKINGS

(K) WHITE, BICYCLE LANE SYMBOL AND ARROW (L) WHITE, BICYCLE LANE SYMBOL AND ARROW

WITH GREEN FILL (MM) WHITE, PRIORITY BICYCLE SHARROW SYMBOL (NN) WHITE, BICYCLE SHARROW SYMBOL (R) WHITE, RAILROAD CROSSING SYMBOL • WHITE FLEX POST, 20' SPACE

(1) STANDARD INTERSECTION TREATMENT (2) ADVANCED INTERSECTION TREATMENT POST MOUNTED SIGN



ENDS

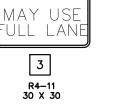
8 R3-17bP 24 X 8

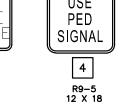


TRAFFIC

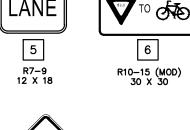
PATTERN

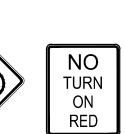
9 W23-2 36 X 36 SHALL BE INSTALLED ON TEMPORARY SIGN MOUNTING





MUST







PARKING LANE PARKING LANE TRAVEL LANE TRAVEL LANE

BICYCLE ROUTE PILL
LOOP DESIGN PLAN
PREPARED FOR
CITY OF NORFOLK



8 R3-17bP 24 X 8

R3-7L 30 X 30

12 W11-1 30 X 30

13 R10-11A 30 X 42

CUSTOM PLAQUE 24 X 12

ÁÀ) WHITE, 12" WIDTH

(4) 6" WIDTH

© WHITE, WORD MESSAGE "ONLY"

D WHITE, WORD MESSAGE "SLOW"

(K) YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE

N YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING

(L) WHITE, ELONGATED ARROW (S)

M YELLOW, 4" WIDTH, 2' LONG, 4' SPACE

• WHITE FLEX POST, 20' SPACE

• POST MOUNTED SIGN

(1) STANDARD INTERSECTION TREATMENT

2 ADVANCED INTERSECTION TREATMENT

**BICYCI** 

BICYCLE ROUTE PILL
LOOP DESIGN PLAN
PREPARED FOR
CITY OF NORFOLK

TYPICAL CROSS-SECTION J-J

TRAVEL LANE

BIKE LANE BUFFER

BUFFER BIKE LANE

TRAVEL LANE



(A) WHITE, 4" WIDTH

B) WHITE, 4" WIDTH, 10' LONG, 30' SPACE (C) WHITE, 4" WIDTH, 2' LONG, 4' SPACE

(D) WHITE, 24" WIDTH

(E) WHITE, 6" WIDTH @ 45 DEGREES, 10' SPACE (F) WHITE, 6" WIDTH

(G) WHITE, 8" WIDTH

H YELLOW, 4" WIDTH

YELLOW, DOUBLE LINE: 4" WIDTH & 4" WIDTH @ 4" SPACING (J) YELLOW, 24" WIDTH @ 45 DEGREES

(K) YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE (L) WHITE, ELONGATED ARROW (S)

(M) YELLOW, 4" WIDTH, 2' LONG, 4' SPACE

N YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING

) WHITE, 12" WIDTH, 10' LONG, 30' SPACE

WHITE, 6" WIDTH, 10' LONG, 30' SPACE (R) WHITE, 4" WIDTH, 3' LONG, 9' SPACE

) WHITE, 6" WIDTH, 3' LONG, 9' SPACE WHITE, 8" WIDTH, 3' LONG, 9' SPACE

WHITE, 12" WIDTH, 3' LONG, 9' SPACE WHITE, 6" WIDTH, 2' LONG, 4' SPACE W YELLOW, 4" WIDTH, 10' LONG, 30' SPACE

Y) WHITE, YIELD LINE

(Z) YELLOW, 6" WIDTH (AA) WHITE, 12" WIDTH

(4) 6" WIDTH © WHITE, WORD MESSAGE "ONLY" OD WHITE, WORD MESSAGE "SLOW"

FF WHITE, WORD MESSAGE "STOP AHEAD"

GG WHITE, WORD MESSAGE (OTHER)

(H) WHITE, WORD MESSAGE "YIELD"

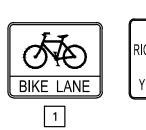
(II) WHITE, HOV SYMBOL (JJ) WHITE, SPEED HUMP MARKINGS

(K) WHITE, BICYCLE LANE SYMBOL AND ARROW (L) WHITE, BICYCLE LANE SYMBOL AND ARROW

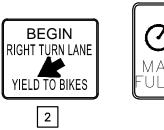
WITH GREEN FILL (M) WHITE, PRIORITY BICYCLE SHARROW SYMBOL (N) WHITE, BICYCLE SHARROW SYMBOL

(RR) WHITE, RAILROAD CROSSING SYMBOL

• WHITE FLEX POST, 20' SPACE (1) STANDARD INTERSECTION TREATMENT (2) ADVANCED INTERSECTION TREATMENT POST MOUNTED SIGN



ENDS



NEW TRAFFIC PATTERN

AHEAD,



RIGHT LANE

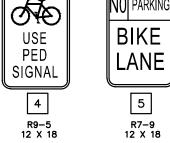
MUST

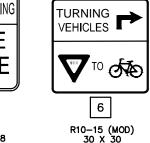
TURN RIGHT

LEFT LANE

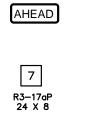
MUST

TURN LEFT





NO TURN ON RED





CUSTOM PLAQUE 24 X 12

TYPICAL CROSS-SECTION J-J BIKE LANE BUFFER BUFFER BIKE LANE TRAVEL LANE



(A) WHITE, 4" WIDTH

(B) WHITE, 4" WIDTH, 10' LONG, 30' SPACE

(C) WHITE, 4" WIDTH, 2' LONG, 4' SPACE (D) WHITE, 24" WIDTH

(E) WHITE, 6" WIDTH @ 45 DEGREES, 10' SPACE F) WHITE, 6" WIDTH

(G) WHITE, 8" WIDTH

H) YELLOW, 4" WIDTH

YELLOW, DOUBLE LINE: 4" WIDTH & 4" WIDTH @ 4" SPACING

U YELLOW, 24" WIDTH @ 45 DEGREES (K) YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE

(L) WHITE, ELONGATED ARROW (S) M YELLOW, 4" WIDTH, 2' LONG, 4' SPACE

N YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING

) WHITE, 12" WIDTH, 10' LONG, 30' SPACE WHITE, 6" WIDTH, 10' LONG, 30' SPACE (R) WHITE, 4" WIDTH, 3' LONG, 9' SPACE

WHITE, 6" WIDTH, 3' LONG, 9' SPACE WHITE, 8" WIDTH, 3' LONG, 9' SPACE WHITE, 12" WIDTH, 3' LONG, 9' SPACE

WHITE, 6" WIDTH, 2' LONG, 4' SPACE W YELLOW, 4" WIDTH, 10' LONG, 30' SPACE (Y) WHITE, YIELD LINE

(Z) YELLOW, 6" WIDTH (A) WHITE, 12" WIDTH

BB WHITE, QUADRUPLE LINE: (4) 6" WIDTH © WHITE, WORD MESSAGE "ONLY" D WHITE, WORD MESSAGE "SLOW"

EE WHITE, WORD MESSAGE "SCHOOL" FF WHITE, WORD MESSAGE "STOP AHEAD" GG WHITE, WORD MESSAGE (OTHER)

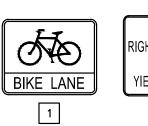
(H) WHITE, WORD MESSAGE "YIELD" (II) WHITE, HOV SYMBOL

(JJ) WHITE, SPEED HUMP MARKINGS

(K) WHITE, BICYCLE LANE SYMBOL AND ARROW (L) WHITE, BICYCLE LANE SYMBOL AND ARROW WITH GREEN FILL

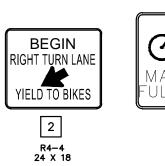
MM) WHITE, PRIORITY BICYCLE SHARROW SYMBOL (N) WHITE, BICYCLE SHARROW SYMBOL (RR) WHITE, RAILROAD CROSSING SYMBOL

• WHITE FLEX POST, 20' SPACE (1) STANDARD INTERSECTION TREATMENT 2 ADVANCED INTERSECTION TREATMENT POST MOUNTED SIGN



ENDS

8 R3-17bP 24 X 8



TRAFFIC

W23-2 36 X 36 SHALL BE INSTALLED ON TEMPORARY SIGN MOUNTING

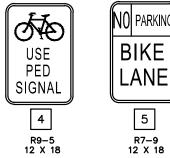
PATTERN



LEFT LANE

MUST

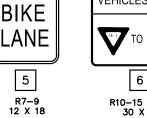
TURN LEFT



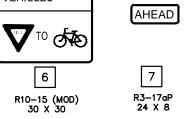
RIGHT LANE

MUST

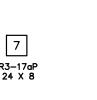
TURN RIGHT



12 W11-1 30 X 30



NO TURN ON RED

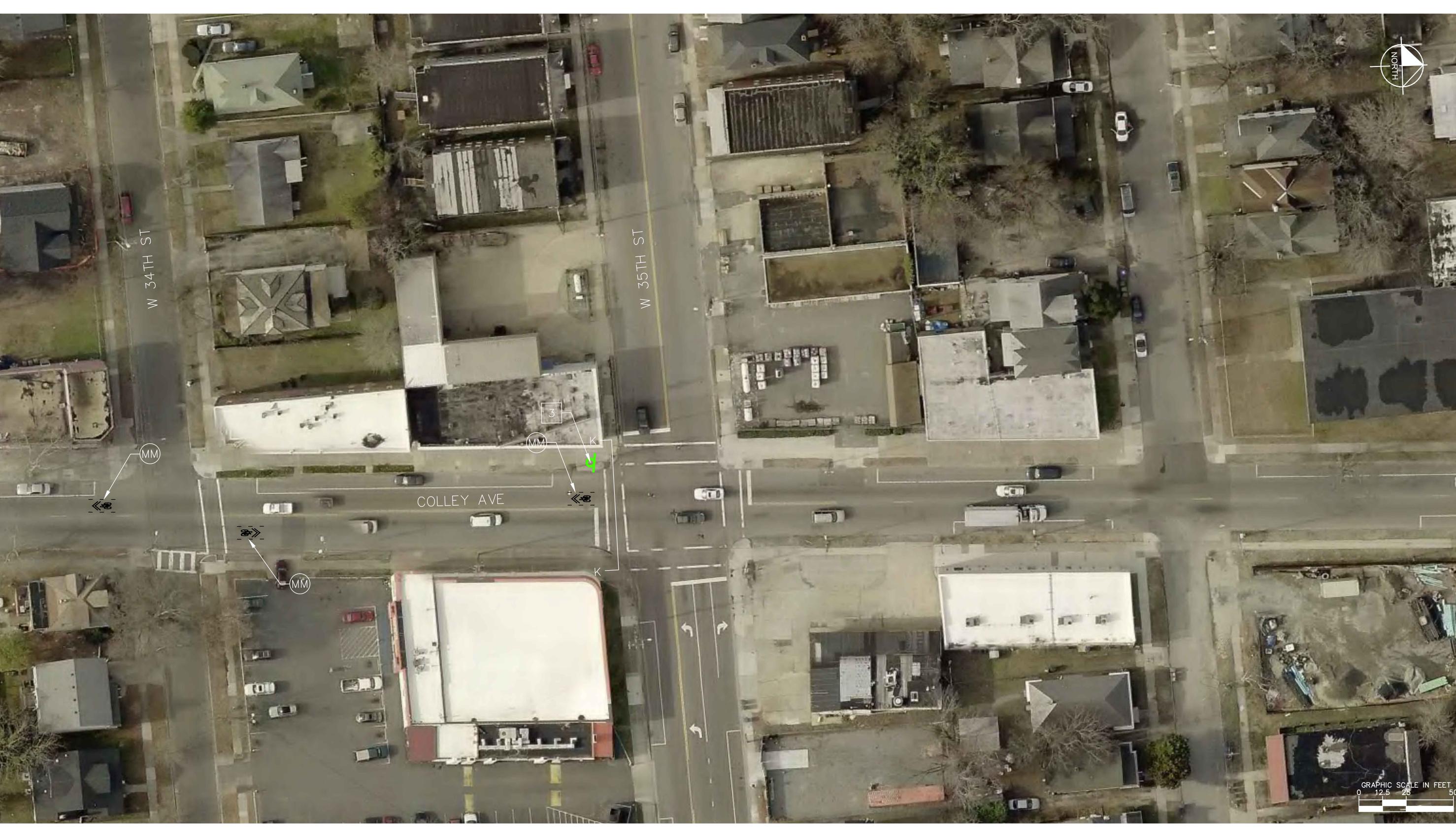




TYPICAL CROSS-SECTION K-K PARKING LANE TRAVEL LANE TRAVEL LANE

TOTAL WIDTH

BICYCLE ROUTE PILL
LOOP DESIGN PLAN
PREPARED FOR
CITY OF NORFOLK



(A) WHITE, 4" WIDTH

B WHITE, 4" WIDTH, 10' LONG, 30' SPACE

© WHITE, 4" WIDTH, 2' LONG, 4' SPACE D WHITE, 24" WIDTH

© WHITE, 6" WIDTH @ 45 DEGREES, 10' SPACE

(F) WHITE, 6" WIDTH © WHITE, 8" WIDTH

H YELLOW, 4" WIDTH

YELLOW, DOUBLE LINE: 4" WIDTH & 4" WIDTH

@ 4" SPACING

J YELLOW, 24" WIDTH @ 45 DEGREES

(K) YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE (L) WHITE, ELONGATED ARROW (S)

M YELLOW, 4" WIDTH, 2' LONG, 4' SPACE

N YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING

WHITE, 24" WIDTH 24" SPACING, 10' LONG P) WHITE, 12" WIDTH, 10' LONG, 30' SPACE

WHITE, 6" WIDTH, 10' LONG, 30' SPACE R WHITE, 4" WIDTH, 3' LONG, 9' SPACE S) WHITE, 6" WIDTH, 3' LONG, 9' SPACE

WHITE, 8" WIDTH, 3' LONG, 9' SPACE WHITE, 12" WIDTH, 3' LONG, 9' SPACE

(V) WHITE, 6" WIDTH, 2' LONG, 4' SPACE (W) YELLOW, 4" WIDTH, 10' LONG, 30' SPACE (Y) WHITE, YIELD LINE

(Z) YELLOW, 6" WIDTH

ÁÀ WHITE, 12" WIDTH (B) WHITE, QUADRUPLE LINE: (4) 6" WIDTH

© WHITE, WORD MESSAGE "ONLY" D WHITE, WORD MESSAGE "SLOW"

EE WHITE, WORD MESSAGE "SCHOOL"

FF WHITE, WORD MESSAGE "STOP AHEAD" GG WHITE, WORD MESSAGE (OTHER)

HH WHITE, WORD MESSAGE "YIELD" (II) WHITE, HOV SYMBOL

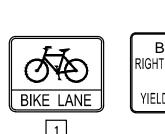
(JJ) WHITE, SPEED HUMP MARKINGS

(KK) WHITE, BICYCLE LANE SYMBOL AND ARROW (L) WHITE, BICYCLE LANE SYMBOL AND ARROW

WITH GREEN FILL (M) WHITE, PRIORITY BICYCLE SHARROW SYMBOL

(NN) WHITE, BICYCLE SHARROW SYMBOL (R) WHITE, RAILROAD CROSSING SYMBOL

• WHITE FLEX POST, 20' SPACE (1) STANDARD INTERSECTION TREATMENT 2 ADVANCED INTERSECTION TREATMENT • POST MOUNTED SIGN



ENDS

8 R3-17bP 24 X 8



TRAFFIC PATTERN

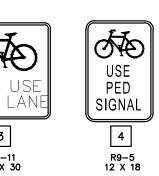
**AHEAD** 

W23-2 36 X 36 SHALL BE INSTALLED ON TEMPORARY SIGN MOUNTING

LEFT LANE

MUST

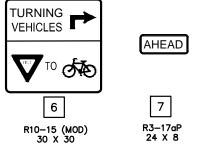
TURN LEFT



MUST

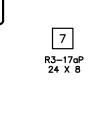
TURN RIGHT





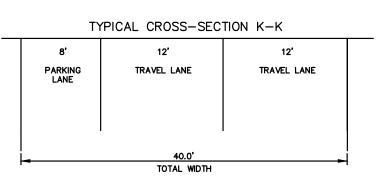
NO TURN

ON RED



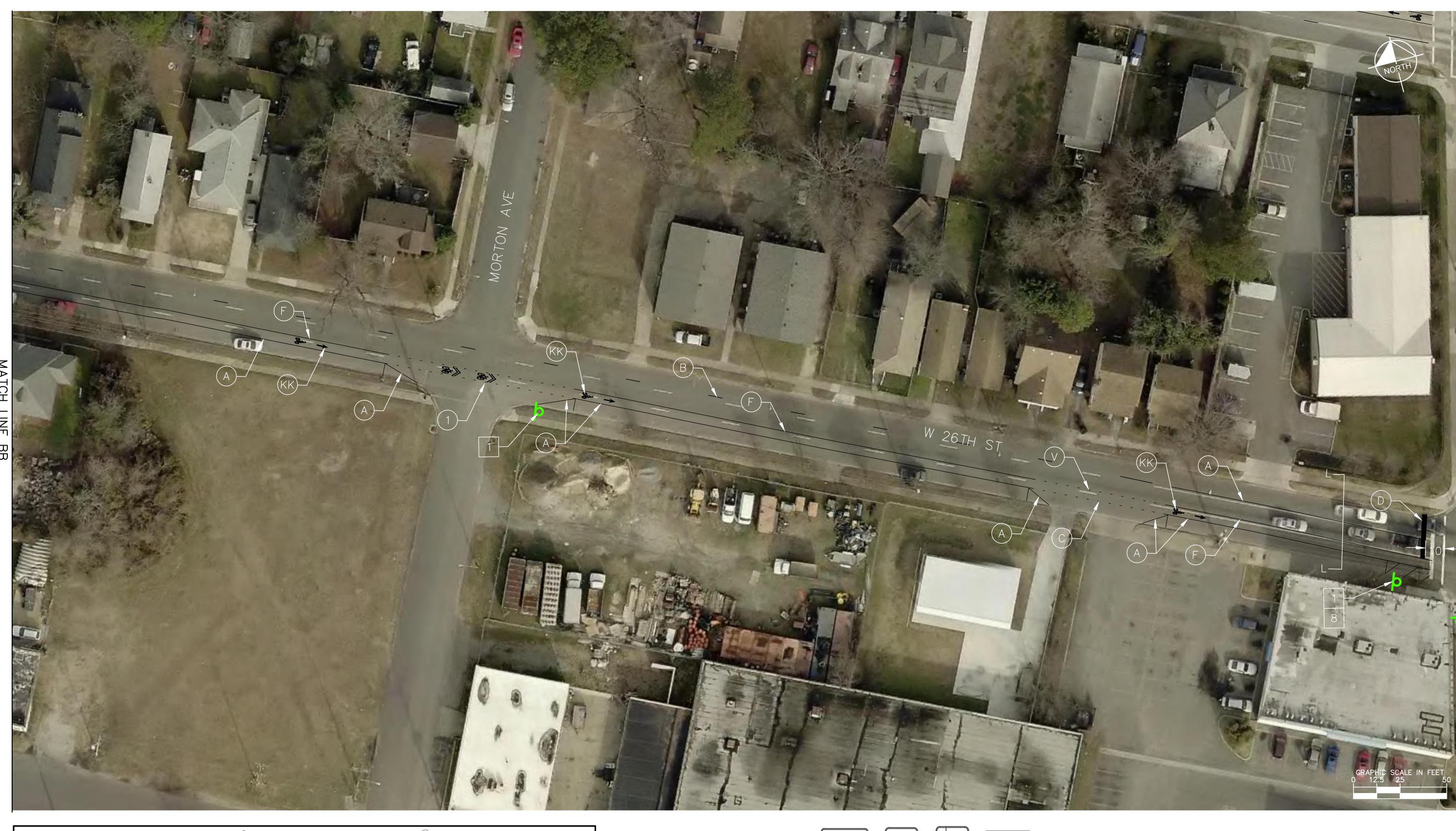


CUSTOM PLAQUE 24 X 12



BICYCLE ROUTE PILL
LOOP DESIGN PLAN
PREPARED FOR
CITY OF NORFOLK

**BICYCI** 



(A) WHITE, 4" WIDTH

B WHITE, 4" WIDTH, 10' LONG, 30' SPACE

© WHITE, 4" WIDTH, 2' LONG, 4' SPACE D WHITE, 24" WIDTH

© WHITE, 6" WIDTH @ 45 DEGREES, 10' SPACE (F) WHITE, 6" WIDTH

G WHITE, 8" WIDTH

H YELLOW, 4" WIDTH

YELLOW, DOUBLE LINE: 4" WIDTH & 4" WIDTH

@ 4" SPACING

J YELLOW, 24" WIDTH @ 45 DEGREES

(K) YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE (L) WHITE, ELONGATED ARROW (S)

M YELLOW, 4" WIDTH, 2' LONG, 4' SPACE

N YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING

O WHITE, 24" WIDTH 24" SPACING, 10' LONG P) WHITE, 12" WIDTH, 10' LONG, 30' SPACE

WHITE, 6" WIDTH, 10' LONG, 30' SPACE R WHITE, 4" WIDTH, 3' LONG, 9' SPACE S) WHITE, 6" WIDTH, 3' LONG, 9' SPACE

T) WHITE, 8" WIDTH, 3' LONG, 9' SPACE WHITE, 12" WIDTH, 3' LONG, 9' SPACE

(V) WHITE, 6" WIDTH, 2' LONG, 4' SPACE (W) YELLOW, 4" WIDTH, 10' LONG, 30' SPACE

(Y) WHITE, YIELD LINE (Z) YELLOW, 6" WIDTH

ÁÀ WHITE, 12" WIDTH (BB) WHITE, QUADRUPLE LINE: (4) 6" WIDTH

© WHITE, WORD MESSAGE "ONLY" D WHITE, WORD MESSAGE "SLOW"

EE WHITE, WORD MESSAGE "SCHOOL"

FF WHITE, WORD MESSAGE "STOP AHEAD" GG WHITE, WORD MESSAGE (OTHER)

(H) WHITE, WORD MESSAGE "YIELD"

(II) WHITE, HOV SYMBOL (JJ) WHITE, SPEED HUMP MARKINGS

(KK) WHITE, BICYCLE LANE SYMBOL AND ARROW (L) WHITE, BICYCLE LANE SYMBOL AND ARROW WITH GREEN FILL

(MM) WHITE, PRIORITY BICYCLE SHARROW SYMBOL (NN) WHITE, BICYCLE SHARROW SYMBOL

(RR) WHITE, RAILROAD CROSSING SYMBOL • WHITE FLEX POST, 20' SPACE

(1) STANDARD INTERSECTION TREATMENT (2) ADVANCED INTERSECTION TREATMENT • POST MOUNTED SIGN



ENDS

8 R3-17bP 24 X 8



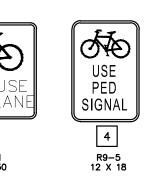
LEFT LANE

MUST

TURN LEFT

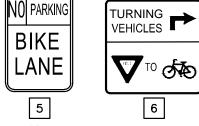
NEW TRAFFIC PATTERN

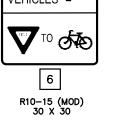
AHEAD

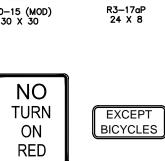


MUST

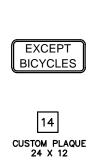
TURN RIGHT

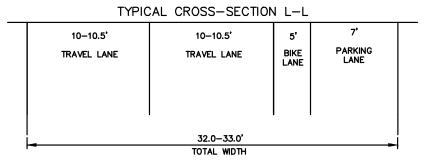






AHEAD





BICYCLE ROUTE PILL
LOOP DESIGN PLAN
PREPARED FOR
CITY OF NORFOLK

SHEET NUMBER

26



(A) WHITE, 4" WIDTH

B WHITE, 4" WIDTH, 10' LONG, 30' SPACE

© WHITE, 4" WIDTH, 2' LONG, 4' SPACE D WHITE, 24" WIDTH

E WHITE, 6" WIDTH @ 45 DEGREES, 10' SPACE (F) WHITE, 6" WIDTH

G WHITE, 8" WIDTH

H YELLOW, 4" WIDTH

YELLOW, DOUBLE LINE: 4" WIDTH & 4" WIDTH

@ 4" SPACING

J YELLOW, 24" WIDTH @ 45 DEGREES

(K) YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE (L) WHITE, ELONGATED ARROW (S)

M YELLOW, 4" WIDTH, 2' LONG, 4' SPACE

N YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING

WHITE, 24" WIDTH 24" SPACING, 10' LONG WHITE, 12" WIDTH, 10' LONG, 30' SPACE

WHITE, 6" WIDTH, 10' LONG, 30' SPACE R WHITE, 4" WIDTH, 3' LONG, 9' SPACE S) WHITE, 6" WIDTH, 3' LONG, 9' SPACE

T) WHITE, 8" WIDTH, 3' LONG, 9' SPACE WHITE, 12" WIDTH, 3' LONG, 9' SPACE

(V) WHITE, 6" WIDTH, 2' LONG, 4' SPACE (W) YELLOW, 4" WIDTH, 10' LONG, 30' SPACE (Y) WHITE, YIELD LINE

(Z) YELLOW, 6" WIDTH

ÁÀ WHITE, 12" WIDTH (BB) WHITE, QUADRUPLE LINE: (4) 6" WIDTH

© WHITE, WORD MESSAGE "ONLY" D WHITE, WORD MESSAGE "SLOW"

EE WHITE, WORD MESSAGE "SCHOOL"

FF WHITE, WORD MESSAGE "STOP AHEAD"

GG WHITE, WORD MESSAGE (OTHER) (H) WHITE, WORD MESSAGE "YIELD"

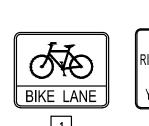
(II) WHITE, HOV SYMBOL (JJ) WHITE, SPEED HUMP MARKINGS

(KK) WHITE, BICYCLE LANE SYMBOL AND ARROW (L) WHITE, BICYCLE LANE SYMBOL AND ARROW WITH GREEN FILL

(MM) WHITE, PRIORITY BICYCLE SHARROW SYMBOL (NN) WHITE, BICYCLE SHARROW SYMBOL (R) WHITE, RAILROAD CROSSING SYMBOL

• POST MOUNTED SIGN

• WHITE FLEX POST, 20' SPACE (1) STANDARD INTERSECTION TREATMENT (2) ADVANCED INTERSECTION TREATMENT



ENDS

8 R3-17bP 24 X 8



NEW TRAFFIC PATTERN

AHEAD



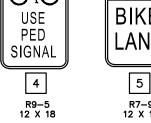
MUST

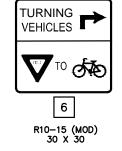
TURN RIGHT

LEFT LANE

MUST

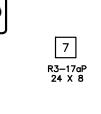
TURN LEFT



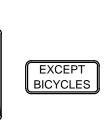


NO TURN

ON RED



AHEAD



CUSTOM PLAQUE 24 X 12

TRAVEL LANE

TYPICAL CROSS-SECTION L-L

BICYCLE ROUTE PILL
LOOP DESIGN PLAN
PREPARED FOR
CITY OF NORFOLK



BICYCLE ROUTE PILL
LOOP DESIGN PLAN
PREPARED FOR
CITY OF NORFOLK

PAVEMENT MARKING LEGEND: A WHITE, 4" WIDTH

B) WHITE, 4" WIDTH, 10' LONG, 30' SPACE C) WHITE, 4" WIDTH, 2' LONG, 4' SPACE

) WHITE, 24" WIDTH ) WHITE, 6" WIDTH @ 45 DEGREES, 10' SPACE

) WHITE, 6" WIDTH

(G) WHITE, 8" WIDTH

(H) YELLOW, 4" WIDTH YELLOW, DOUBLE LINE: 4" WIDTH & 4" WIDTH @ 4" SPACING

(J) YELLOW, 24" WIDTH @ 45 DEGREES (K) YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE

(L) WHITE, ELONGATED ARROW (S)

M YELLOW, 4" WIDTH, 2' LONG, 4' SPACE

N YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING

O WHITE, 24" WIDTH 24" SPACING, 10' LONG WHITE, 12" WIDTH, 10' LONG, 30' SPACE

Q WHITE, 6" WIDTH, 10' LONG, 30' SPACE R) WHITE, 4" WIDTH, 3' LONG, 9' SPACE

WHITE, 6" WIDTH, 3' LONG, 9' SPACE WHITE, 8" WIDTH, 3' LONG, 9' SPACE U) WHITE, 12" WIDTH, 3' LONG, 9' SPACE

WHITE, 6" WIDTH, 2' LONG, 4' SPACE W YELLOW, 4" WIDTH, 10' LONG, 30' SPACE

Y) WHITE, YIELD LINE Z) YELLOW, 6" WIDTH ÁÀ) WHITE, 12" WIDTH

B WHITE, QUADRUPLE LINE: (4) 6" WIDTH

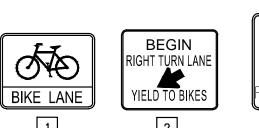
CO WHITE, WORD MESSAGE "ONLY" D WHITE, WORD MESSAGE "SLOW" EE WHITE, WORD MESSAGE "SCHOOL" FF WHITE, WORD MESSAGE "STOP AHEAD"

G WHITE, WORD MESSAGE (OTHER) (H) WHITE, WORD MESSAGE "YIELD" (II) WHITE, HOV SYMBOL

(JJ) WHITE, SPEED HUMP MARKINGS (KR) WHITE, BICYCLE LANE SYMBOL AND ARROW (L) WHITE, BICYCLE LANE SYMBOL AND ARROW

WITH GREEN FILL MM WHITE, PRIORITY BICYCLE SHARROW SYMBOL (N) WHITE, BICYCLE SHARROW SYMBOL (R) WHITE, RAILROAD CROSSING SYMBOL • WHITE FLEX POST, 20' SPACE

(1) STANDARD INTERSECTION TREATMENT (2) ADVANCED INTERSECTION TREATMENT 🙇 POST MOUNTED SIGN



NEW TRAFFIC PATTERN

AHEAD

ENDS

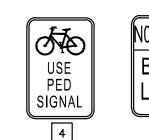
8 R3-17bP 24 X 8



LEFT LANE

MUST

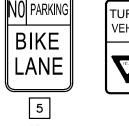
TURN LEFT

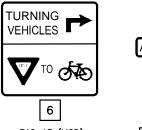


MUST

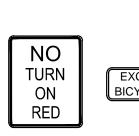
TURN RIGHT

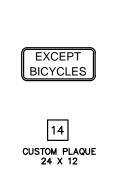
R3-7R 30 X 30

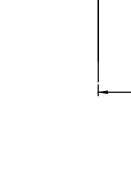


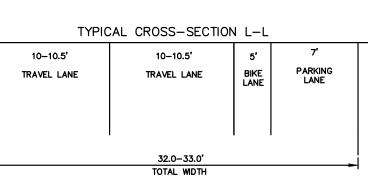














PAVEMENT MARKING LEGEND: (A) WHITE, 4" WIDTH

(B) WHITE, 4" WIDTH, 10' LONG, 30' SPACE

© WHITE, 4" WIDTH, 2' LONG, 4' SPACE

D WHITE, 24" WIDTH

(E) WHITE, 6" WIDTH @ 45 DEGREES, 10' SPACE (F) WHITE, 6" WIDTH

Ğ WHITE, 8" WIDTH

H YELLOW, 4" WIDTH

YELLOW, DOUBLE LINE: 4" WIDTH & 4" WIDTH

@ 4" SPACING

J YELLOW, 24" WIDTH @ 45 DEGREES

K YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE (L) WHITE, ELONGATED ARROW (S)

M YELLOW, 4" WIDTH, 2' LONG, 4' SPACE

YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING

O WHITE, 24" WIDTH 24" SPACING, 10' LONG P WHITE, 12" WIDTH, 10' LONG, 30' SPACE

WHITE, 6" WIDTH, 10' LONG, 30' SPACE (R) WHITE, 4" WIDTH, 3' LONG, 9' SPACE

S) WHITE, 6" WIDTH, 3' LONG, 9' SPACE (T) WHITE, 8" WIDTH, 3' LONG, 9' SPACE

U) WHITE, 12" WIDTH, 3' LONG, 9' SPACE (V) WHITE, 6" WIDTH, 2' LONG, 4' SPACE

W YELLOW, 4" WIDTH, 10' LONG, 30' SPACE Y) WHITE, YIELD LINE

(Z) YELLOW, 6" WIDTH

(AA) WHITE, 12" WIDTH

B WHITE, QUADRUPLE LINE: (4) 6" WIDTH © WHITE, WORD MESSAGE "ONLY"

D WHITE, WORD MESSAGE "SLOW"

(E) WHITE, WORD MESSAGE "SCHOOL" (FF) WHITE, WORD MESSAGE "STOP AHEAD"

G WHITE, WORD MESSAGE (OTHER) (H) WHITE, WORD MESSAGE "YIELD"

(II) WHITE, HOV SYMBOL

(JJ) WHITE, SPEED HUMP MARKINGS

(K) WHITE, BICYCLE LANE SYMBOL AND ARROW (L) WHITE, BICYCLE LANE SYMBOL AND ARROW

WITH GREEN FILL (MM) WHITE, PRIORITY BICYCLE SHARROW SYMBOL

(NN) WHITE, BICYCLE SHARROW SYMBOL (R) WHITE, RAILROAD CROSSING SYMBOL

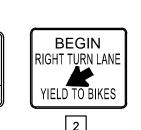
• WHITE FLEX POST, 20' SPACE (1) STANDARD INTERSECTION TREATMENT

(2) ADVANCED INTERSECTION TREATMENT 🗘 POST MOUNTED SIGN



ENDS

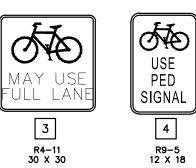
8 R3-17bP 24 X 8



NEW TRAFFIC

PATTERN

AHEAD



LEFT LANE

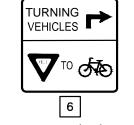
MUST

TURN LEFT

MUST

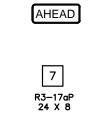
TURN RIGHT

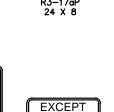




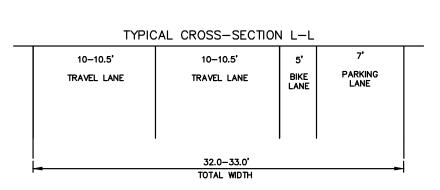
NO TURN

ON RED





EXCEPT BICYCLES CUSTOM PLAQUE 24 X 12



NOTE: ALL EXISTING "NO STOPPING" SIGNS TO BE REMOVED.

BICYCLE ROUTE PILOT
LOOP DESIGN PLANS
PREPARED FOR
CITY OF NORFOLK

**BICYCI** 



PAVEMENT MARKING LEGEND: A WHITE, 4" WIDTH

B) WHITE, 4" WIDTH, 10' LONG, 30' SPACE © WHITE, 4" WIDTH, 2' LONG, 4' SPACE

D WHITE, 24" WIDTH E) WHITE, 6" WIDTH @ 45 DEGREES, 10' SPACE

(F) WHITE, 6" WIDTH

G WHITE, 8" WIDTH

H YELLOW, 4" WIDTH

YELLOW, DOUBLE LINE: 4" WIDTH & 4" WIDTH @ 4" SPACING

J YELLOW, 24" WIDTH @ 45 DEGREES

(K) YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE

(L) WHITE, ELONGATED ARROW (S)

M YELLOW, 4" WIDTH, 2' LONG, 4' SPACE

N YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING

WHITE, 24" WIDTH 24" SPACING, 10' LONG WHITE, 12" WIDTH, 10' LONG, 30' SPACE

WHITE, 6" WIDTH, 10' LONG, 30' SPACE (R) WHITE, 4" WIDTH, 3' LONG, 9' SPACE

S) WHITE, 6" WIDTH, 3' LONG, 9' SPACE

T) WHITE, 8" WIDTH, 3' LONG, 9' SPACE WHITE, 12" WIDTH, 3' LONG, 9' SPACE

(V) WHITE, 6" WIDTH, 2' LONG, 4' SPACE W YELLOW, 4" WIDTH, 10' LONG, 30' SPACE Y) WHITE, YIELD LINE

(Z) YELLOW, 6" WIDTH

(AA) WHITE, 12" WIDTH

© WHITE, WORD MESSAGE "ONLY" D WHITE, WORD MESSAGE "SLOW"

(BB) WHITE, QUADRUPLE LINE: (4) 6" WIDTH

ED WHITE, WORD MESSAGE "SCHOOL"

FF WHITE, WORD MESSAGE "STOP AHEAD"

GG WHITE, WORD MESSAGE (OTHER) (HH) WHITE, WORD MESSAGE "YIELD"

(II) WHITE, HOV SYMBOL (JJ) WHITE, SPEED HUMP MARKINGS

(K) WHITE, BICYCLE LANE SYMBOL AND ARROW (L) WHITE, BICYCLE LANE SYMBOL AND ARROW WITH GREEN FILL

(M) WHITE, PRIORITY BICYCLE SHARROW SYMBOL

(N) WHITE, BICYCLE SHARROW SYMBOL (R) WHITE, RAILROAD CROSSING SYMBOL

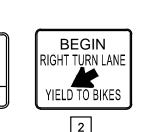
• WHITE FLEX POST, 20' SPACE (1) STANDARD INTERSECTION TREATMENT

(2) ADVANCED INTERSECTION TREATMENT • POST MOUNTED SIGN



ENDS

8 R3-17bP 24 X 8



NEW TRAFFIC

PATTERN

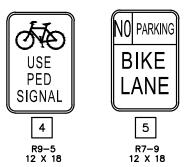
AHEAD



LEFT LANE

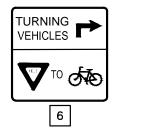
MUST

TURN LEFT



MUST

TURN RIGHT



NO TURN

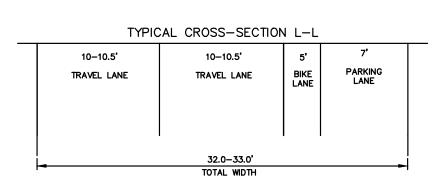
ON RED







CUSTOM PLAQUE 24 X 12



NOTE: ALL EXISTING "NO STOPPING" SIGNS TO BE REMOVED.

BICYCLE ROUTE PILL
LOOP DESIGN PLAN
PREPARED FOR
CITY OF NORFOLK

**BICYCI** 

SHEET NUMBER

30



(A) WHITE, 4" WIDTH (B) WHITE, 4" WIDTH, 10' LONG, 30' SPACE (C) WHITE, 4" WIDTH, 2' LONG, 4' SPACE

(D) WHITE, 24" WIDTH (E) WHITE, 6" WIDTH @ 45 DEGREES, 10' SPACE

(F) WHITE, 6" WIDTH (G) WHITE, 8" WIDTH

H) YELLOW, 4" WIDTH

YELLOW, DOUBLE LINE: 4" WIDTH & 4" WIDTH

@ 4" SPACING

(J) YELLOW, 24" WIDTH @ 45 DEGREES

(K) YELLOW, DOUBLE LINE: 4" WIDTH, 2' LONG, 4' SPACE (L) WHITE, ELONGATED ARROW (S)

M YELLOW, 4" WIDTH, 2' LONG, 4' SPACE

N YELLOW, DOUBLE LINE: 4" WIDTH SOLID & 4" WIDTH, 10" LONG, 30' SPACE @ 4" SPACING

WHITE, 24" WIDTH 24" SPACING, 10' LONG

P WHITE, 12" WIDTH, 10' LONG, 30' SPACE Q WHITE, 6" WIDTH, 10' LONG, 30' SPACE

(R) WHITE, 4" WIDTH, 3' LONG, 9' SPACE (S) WHITE, 6" WIDTH, 3' LONG, 9' SPACE (T) white, 8" width, 3' long, 9' space

(U) WHITE, 12" WIDTH, 3' LONG, 9' SPACE WHITE, 6" WIDTH, 2' LONG, 4' SPACE

(W) YELLOW, 4" WIDTH, 10' LONG, 30' SPACE (Y) WHITE, YIELD LINE

(Z) YELLOW, 6" WIDTH

(AA) WHITE, 12" WIDTH

BB WHITE, QUADRUPLE LINE: (4) 6" WIDTH © WHITE, WORD MESSAGE "ONLY"

D WHITE, WORD MESSAGE "SLOW"

(E) WHITE, WORD MESSAGE "SCHOOL" FF WHITE, WORD MESSAGE "STOP AHEAD"

GG WHITE, WORD MESSAGE (OTHER) (H) WHITE, WORD MESSAGE "YIELD"

(II) WHITE, HOV SYMBOL (JJ) WHITE, SPEED HUMP MARKINGS

(K) WHITE, BICYCLE LANE SYMBOL AND ARROW (L) WHITE, BICYCLE LANE SYMBOL AND ARROW

WITH GREEN FILL MM WHITE, PRIORITY BICYCLE SHARROW SYMBOL (NN) WHITE, BICYCLE SHARROW SYMBOL

(R) WHITE, RAILROAD CROSSING SYMBOL • WHITE FLEX POST, 20' SPACE

(1) STANDARD INTERSECTION TREATMENT (2) ADVANCED INTERSECTION TREATMENT POST MOUNTED SIGN



ENDS

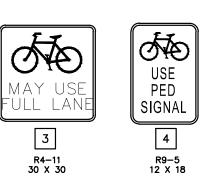
8 R3-17bP 24 X 8



NEW TRAFFIC

PATTERN

AHEAD



MUST

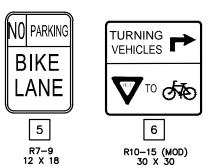
TURN RIGHT

R3-7R 30 X 30

LEFT LANE

MUST

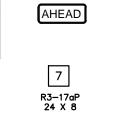
TURN LEFT



NO TURN

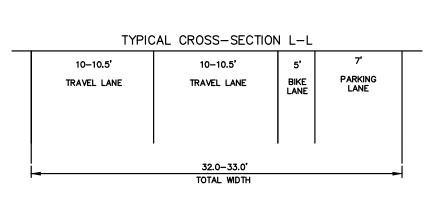
ON RED







CUSTOM PLAQUE 24 X 12

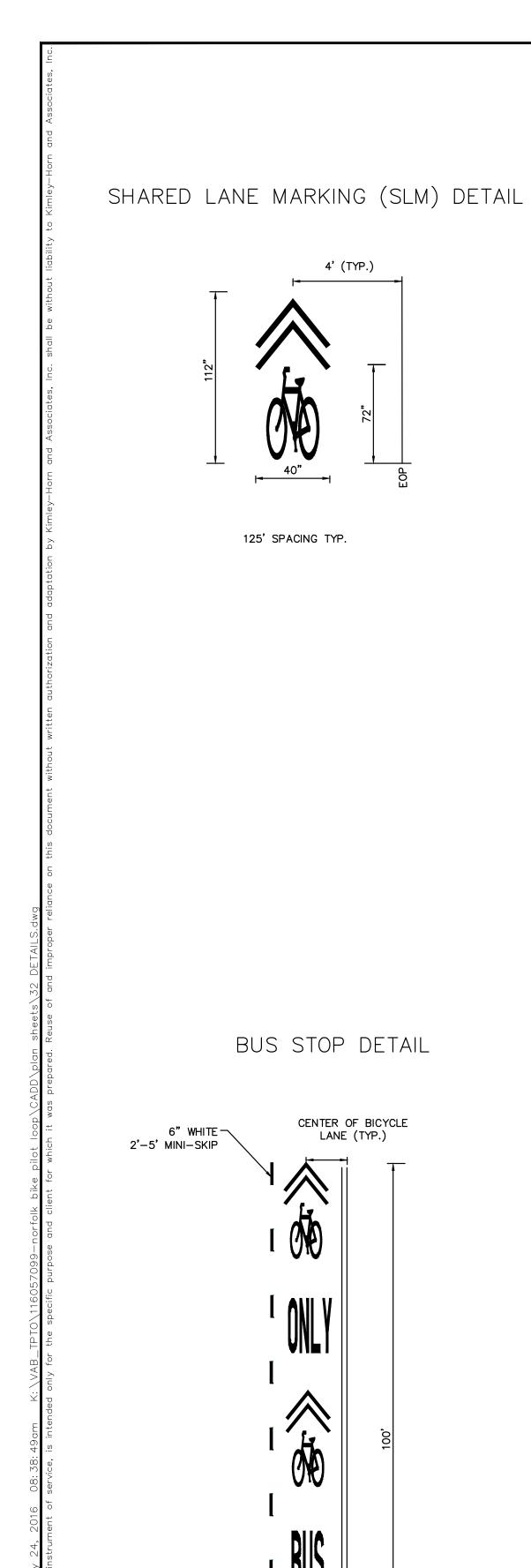


NOTE: ALL EXISTING "NO STOPPING" SIGNS TO BE REMOVED.

BICYCLE ROUTE PILOT
LOOP DESIGN PLANS
PREPARED FOR
CITY OF NORFOLK

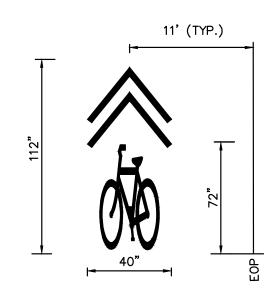
**BICYCI** 

SHEET NUMBER



WIDTH TO ALIGN WITH BICYCLE LANES ON EITHER SIDE OF BUS STOP





125' SPACING TYP.

4" WHITE—CENTER OF TRAVEL
LANE (TYP.)

LANE (TYP.)

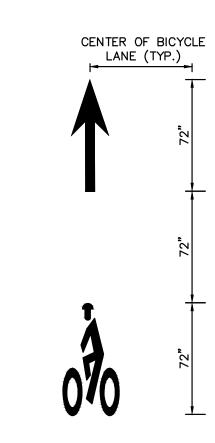
40"
60"

GO"

PRIORITY SHARED LANE

MARKING DETAIL





#### TYP. BICYCLE LANE SYMBOL SPACING

BLOCK LENGTH 500' OR LESS

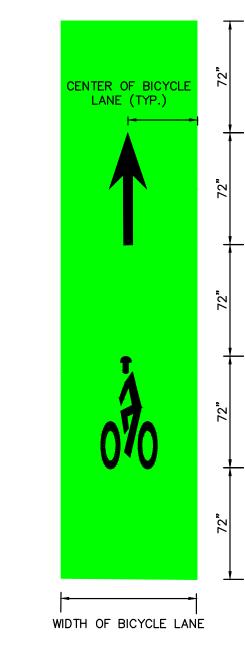
1 SYMBOL LOCATED 6' FROM CROSSWALK, EXTENSION OF SIDEWALK, OR CURB RETURN AFTER INTERSECTION OR BREAK IN BIKE LANE

BLOCK LENGTH 501' OR MORE

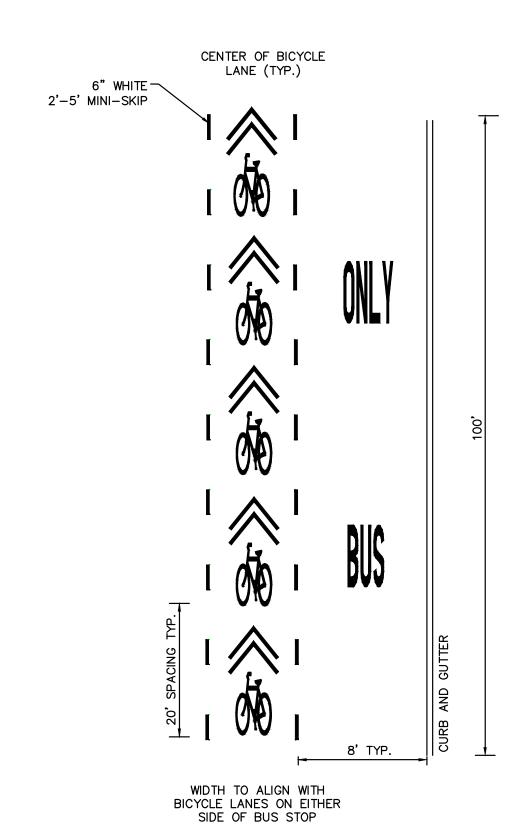
1 SYMBOL LOCATED 6' FROM CROSSWALK, EXTENSION OF SIDEWALK, OR CURB RETURN AFTER INTERSECTION OR BREAK IN BIKE LANE

1 SYMBOL LOCATED AT MIDPOINT OF BLOCK

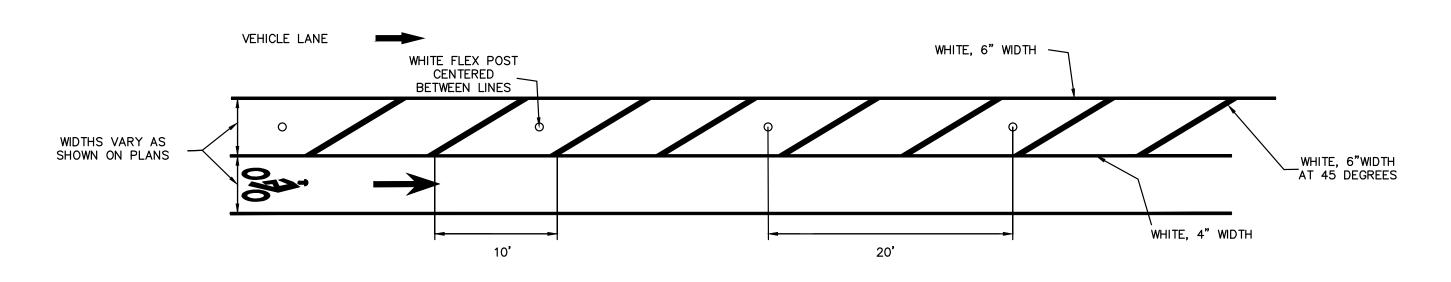
## BICYCLE LANE SYMBOL AND ARROW WITH GREEN FILL DETAIL



BUS STOP WITH ADJACENT ON-STREET PARKING DETAIL



BUFFERED BIKE LANE WITH FLEX POST DETAIL



Kimley

DATE

02/24/16

SCALE AS SHOWN

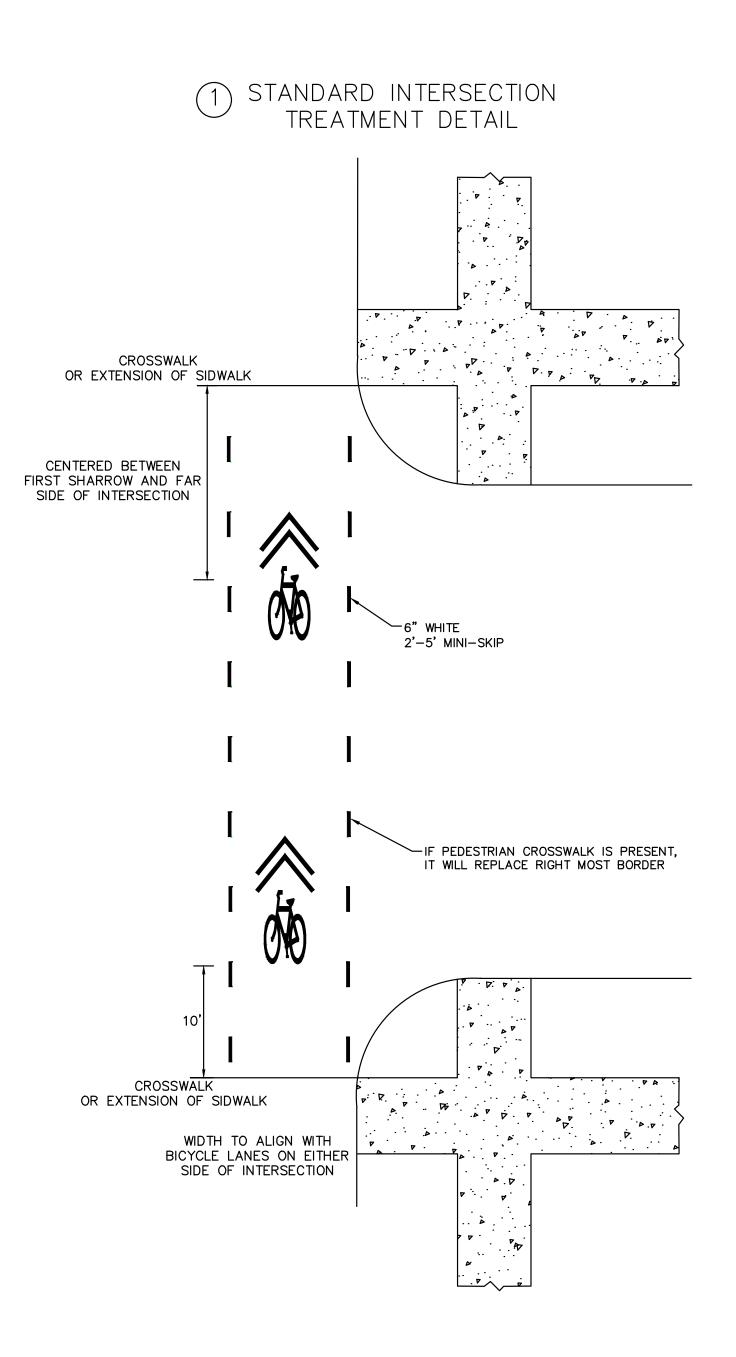
DESIGNED BY MMO

DRAWN BY MMO

DETAILS

SIGN PLANS
ARED FOR
NORFOLK

LOOP DESIGN PLAI
PREPARED FOR



TYP. INTERSECTION TREATMENT SHARED LAND MARKING (SLM) SPACING

INTERSECTION SPAN 75' OR LESS 1 SLM LOCATED 10' FROM CROSSWALK OR EXTENSION OF SIDEWALK

1 SLM AT THE MIDPOINT BETWEEN THE FIRST SLM AND THE FAR SIDE

OF THE INTERSECTION

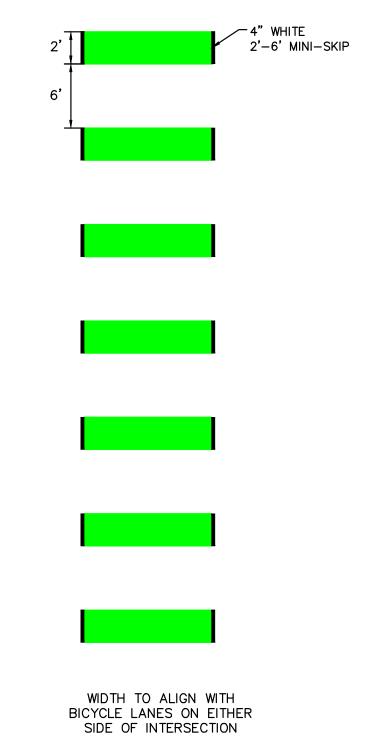
INTERSECTION SPAN 76' OR MORE 1 SLM LOCATED 10' FROM

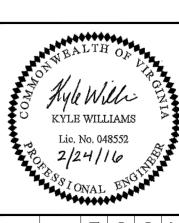
CROSSWALK OR EXTENSION OF SIDEWALK

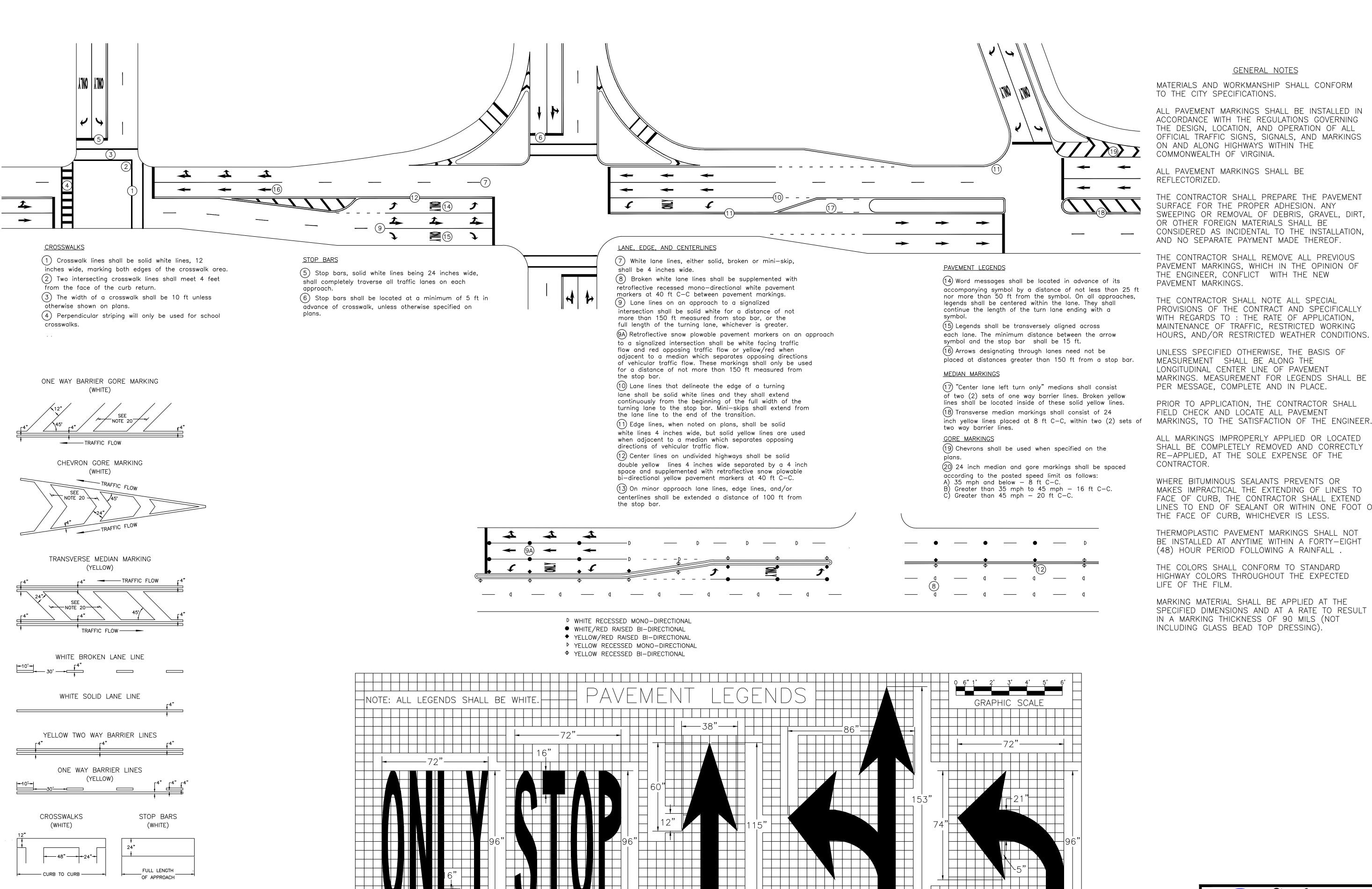
1 SLM LOCATED AT MIDPOINT OF INTERSECTION

1 SLM LOCATED 10' FROM CROSSWALK OR EXTENSION OF SIDEWALK AT FAR SIDE OF INTERSECTION

2 ADVANCED INTERSECTION TREATMENT DETAIL







MINI SKIPS

#### GENERAL NOTES

MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CITY SPECIFICATIONS.

ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE REGULATIONS GOVERNING THE DESIGN, LOCATION, AND OPERATION OF ALL OFFICIAL TRAFFIC SIGNS, SIGNALS, AND MARKINGS ON AND ALONG HIGHWAYS WITHIN THE

ALL PAVEMENT MARKINGS SHALL BE

THE CONTRACTOR SHALL PREPARE THE PAVEMENT SURFACE FOR THE PROPER ADHESION. ANY SWEEPING OR REMOVAL OF DEBRIS, GRAVEL, DIRT, OR OTHER FOREIGN MATERIALS SHALL BE CONSIDERED AS INCIDENTAL TO THE INSTALLATION, AND NO SEPARATE PAYMENT MADE THEREOF.

THE CONTRACTOR SHALL REMOVE ALL PREVIOUS PAVEMENT MARKINGS, WHICH IN THE OPINION OF THE ENGINEER, CONFLICT WITH THE NEW PAVEMENT MARKINGS.

THE CONTRACTOR SHALL NOTE ALL SPECIAL PROVISIONS OF THE CONTRACT AND SPECIFICALLY WITH REGARDS TO: THE RATE OF APPLICATION, MAINTENANCE OF TRAFFIC, RESTRICTED WORKING HOURS, AND/OR RESTRICTED WEATHER CONDITIONS.

UNLESS SPECIFIED OTHERWISE, THE BASIS OF MEASUREMENT SHALL BE ALONG THE LONGITUDINAL CENTER LINE OF PAVEMENT MARKINGS. MEASUREMENT FOR LEGENDS SHALL BE PER MESSAGE, COMPLETE AND IN PLACE.

PRIOR TO APPLICATION, THE CONTRACTOR SHALL FIELD CHECK AND LOCATE ALL PAVEMENT

ALL MARKINGS IMPROPERLY APPLIED OR LOCATED SHALL BE COMPLETELY REMOVED AND CORRECTLY RE-APPLIED, AT THE SOLE EXPENSE OF THE

WHERE BITUMINOUS SEALANTS PREVENTS OR MAKES IMPRACTICAL THE EXTENDING OF LINES TO FACE OF CURB. THE CONTRACTOR SHALL EXTEND LINES TO END OF SEALANT OR WITHIN ONE FOOT OF THE FACE OF CURB, WHICHEVER IS LESS.

THERMOPLASTIC PAVEMENT MARKINGS SHALL NOT BE INSTALLED AT ANYTIME WITHIN A FORTY-EIGHT (48) HOUR PERIOD FOLLOWING A RAINFALL .

THE COLORS SHALL CONFORM TO STANDARD HIGHWAY COLORS THROUGHOUT THE EXPECTED LIFE OF THE FILM.

MARKING MATERIAL SHALL BE APPLIED AT THE SPECIFIED DIMENSIONS AND AT A RATE TO RESULT IN A MARKING THICKNESS OF 90 MILS (NOT INCLUDING GLASS BEAD TOP DRESSING).

Division of Transportation

TYPICAL PAVEMENT MARKINGS

Orawn by:B. STEWART Designed by:C.VIDRINE Date: 9/18/1999 Scale: NONE

SHEET NUMBER

Lyle Willi

KŸLE WILLIAMS

Lic. No. 048552

PICAL PAVEN MARKINGS

2/24/16

Kim

KYLE WILLIAMS Lic. No. 048552

MAINTENANCE OF TRAFFIC DETAILS

LE ROUTE PIL
DESIGN PLAN
PREPARED FOR
IY OF NORFOLK